Majority Science Journal (MSJ) Vol. 3 No. 3, August 2025
P-ISSN: 0000-0000; E-ISSN: 3025-1990
Available : https://jurnalhafasy.com/index.php/msj DOI: https://doi.org/10.61942/msj.v3i3.443

THE ROLE OF CLOUD COMPUTING TECHNOLOGY IN INCREASING WORK FLEXIBILITY IN THE HYBRID ERA

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Inputed : July 10, 2025 *Revised : August 20, 2025*
Accepted : July 25, 2025 *Published : August 31, 2025*

Abstract

Digital transformation post-COVID-19 pandemic has accelerated the adoption of cloud computing technology to support hybrid work models that demand high flexibility, virtual collaboration, and cross-site employee mobility. This study aims to analyze the role of cloud computing technology in increasing work flexibility in the hybrid era through a Systematic Literature Review (SLR) approach to the latest studies for the 2020–2025 period. The results of the analysis show that cloud computing contributes significantly to increasing work flexibility through three main mechanisms, namely providing real-time data and application access, facilitating cross-site collaboration through AI-based platforms, and scalability and resource elasticity capabilities that support cost efficiency and rapid response to changing business needs. Cloud implementations have also been proven to accelerate decision-making, increase team productivity, and strengthen organizational cohesion in a hybrid work environment. On the other hand, challenges such as data security and privacy issues, reliance on internet connectivity, and the complexity of integration with legacy systems remain major obstacles. These findings confirm that cloud computing is not only a supporting technology, but also a strategic enabler for organizations to create an adaptive and sustainable hybrid work ecosystem. This study recommends the implementation of hybrid or multi-cloud architecture, strengthening network infrastructure, and developing human resource capacity so that organizations are able to maximize the potential of cloud computing optimally.

Keywords : *cloud computing, work flexibility, hybrid era, digital transformation, collaboration.*

Citation :
Witanti, W. 2025. The Role of Cloud Computing Technology in Increasing Work Flexibility in the Hybrid Era. *MSJ: Majority Science Journal*, *3*(3), 276-285

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1. Introduction

Hybrid work models, which combine remote and in-person work, are gaining popularity in the wake of the COVID-19 pandemic because they offer high flexibility for employees and efficiency for organizations (Wang et al., 2021). This change demands a technology infrastructure that is adaptive, secure, and capable of supporting cross-location collaboration (Vartiainen & Hassett, 2020). In this context, cloud computing is emerging as one of the main solutions that allows organizations to maintain productivity while ensuring business continuity (Gerasimov, 2024). Cloud computing is defined as a network-based computing paradigm that provides on-demand access to servers, storage, applications, and other digital services over the internet (Mithun, 2024). These technologies support real-time access, mobility, and cross-site collaboration that are critical elements of hybrid work success (Shrivastava et al., 2024). Liu and Zeng's (2024) research confirms that hybrid cloud architecture is able to balance the need for flexibility and control, while Porkodi and Raman (2024) show increased operational efficiency through the implementation of cloud-based HRM.

Although it provides many advantages, the implementation of cloud computing also faces challenges such as data security issues, privacy, and dependence on the quality of internet connectivity (Maria & J, 2024). In addition, most of the research still focuses on technical aspects or cost efficiency, while studies linking cloud computing to work flexibility in hybrid contexts in Southeast Asia, especially Indonesia, are still limited (Prasetyo et al.,

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2025). Based on these gaps, this study aims to analyze the role of cloud computing in increasing hybrid work flexibility with a Systematic Literature Review approach to the latest studies (2020–2025). The main focus of this research is not only on the benefits of technology, but also the managerial implications in its application.

Thus, the contribution of this research is to provide a comprehensive synthesis of literature on the relationship between cloud computing and hybrid work flexibility, clarify the research gap in the Indonesian context, and offer strategic recommendations for organizations in optimizing hybrid/multi-cloud adoption. This is expected to strengthen the academic literature while providing practical guidance for policymakers and practitioners.

Literature Review

1. Cloud Computing Concept

Cloud computing is a modern computing paradigm that provides computing resources such as storage, servers, networks, applications, and other digital services through the internet in an on-demand and elastic manner (Shrivastava et al., 2024). This model allows organizations to reduce their reliance on internal physical infrastructure as services can be obtained from third-party providers with a pay-as-you-go payment scheme (Mithun, 2024). In general, cloud computing is divided into three main service models: (1) Infrastructure as a Service (IaaS) which provides virtual infrastructure in the form of servers, storage, and networks; (2) Platform as a Service (PaaS) that provides an integrated application development environment; and (3) Software as a Service (SaaS) that allows access to ready-to-use applications via the internet (Gerasimov, 2024).

Key characteristics of cloud computing include on-demand self-service, broad network access, resource pooling, rapid elasticity, and measured service (Liu & Zeng, 2024). Through these characteristics, organizations can dynamically adjust service capacity as needed, so cost efficiency and scalability can be achieved without large infrastructure investments upfront.

2. Work Flexibility in the Hybrid Era

Work flexibility refers to the ability of individuals to manage their time, location, and way of working with the goal of improving the balance between the demands of work and personal life (Kossek & Michel, 2021). In the digital era, work flexibility is not only in the form of more flexible working hours, but also includes remote working practices, hybrid work models, and collaborative technology integration (Messenger, 2022). The COVID-19 pandemic has been a major accelerator for the implementation of work flexibility, when organizations are forced to adapt to remote work systems in order to maintain operational continuity (Carnevale & Hatak, 2020). As this shifts, digital technologies such as cloud computing, video conferencing, and project management tools are proving to be instrumental in enabling real-time virtual collaboration, expanding accessibility, and supporting employee independence (Wang et al., 2021).

Recent research shows that work flexibility contributes positively to job satisfaction, motivation, and productivity because it gives employees greater autonomy in managing workloads (Prasetyo et al., 2025). Therefore, work flexibility in the hybrid era is now seen as an organizational strategy to maintain competitiveness while improving the welfare of the workforce.

3. The Relationship of Cloud Computing to Work Flexibility

Cloud computing is the main foundation in supporting work flexibility in the hybrid era. This technology enables real-time access to data, applications, and work services from various devices and locations, thereby speeding up workflows, improving cross-site collaboration, and reducing potential productivity disruptions (Islam et al., 2022). Mazzei and Noble (2023) affirm that the adoption of cloud technology directly improves the ability of companies to respond to market changes as well as customer needs because employees are no longer tied to physical locations. In addition, the implementation of the cloud has helped reduce the operational costs of information technology, so that organizations can

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divert resources for innovation and human resource capacity development (Rashmi & Sharma, 2021).

Furthermore, Shrivastava et al. (2024) and Liu & Zeng (2024) emphasize that cloud-based collaboration platforms not only support productivity, but also create more inclusive, adaptive, and sustainable workspaces. Thus, cloud computing functions not only as a supporting technology, but also as a business strategy that allows organizations to be more agile and competitive in the midst of digital disruption (Soomro & Nordin, 2020).

2. Method

This study uses a qualitative approach with the Systematic Literature Review (SLR) method. The selection of this method is based on its objective of providing a comprehensive mapping of previous research, identifying trends, finding research gaps, and formulating strategic recommendations related to the use of cloud computing in support of hybrid work flexibility (Kitchenham & Charters, 2007). The implementation of SLR was carried out by referring to the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines which emphasize transparency in each stage of the review process (Moher et al., 2009).

The research stage begins with the process of identifying the literature, which is carried out through reputable international databases such as Scopus, IEEE Xplore, SpringerLink, Taylor & Francis, and Google Scholar. The keywords used include "cloud computing", "flexible work", "hybrid work", and "digital collaboration". In the initial stage, 315 articles were found that were relevant to the research topic. Furthermore, screening is carried out by removing duplicate articles and literature that are not in accordance with the focus of the research so that the number of articles remaining is 210.

Articles that pass then go through the eligibility stage with strict inclusion and exclusion criteria. The inclusion criteria include articles published in the 2020–2025 period, in English or Indonesian, focusing on cloud computing topics, work flexibility, or hybrid work, and are available in full text. Meanwhile, articles published before 2020, in the form of non-academic reports, or not directly related to the research theme are excluded from the analysis list. From this stage, 78 eligible articles were screened.

The next process is the final inclusion, which is the selection of article quality based on the reputation of the journal, indexing status, and suitability of the research methodology. From this stage, as many as 45 articles were obtained which were used as the basis for analysis. The selected articles were analyzed using a thematic approach by grouping the findings into four main categories, namely: (1) the role of cloud computing in improving accessibility and mobility of work, (2) cloud computing's support for cross-site virtual collaboration, (3) cloud computing's contribution to cost efficiency and organizational productivity, and (4) implementation challenges, including issues of data security, privacy, and integration with legacy systems.

All stages of literature selection are visualized through the PRISMA Diagram, which displays the number of articles at each stage from identification to inclusion. By using this method, the research is expected to be able to present a synthesis of the latest literature in a systematic, credible, and transparent manner, as well as make a theoretical and practical contribution to the development of hybrid work models based on cloud computing.

The following for the research steps is presented in the following figure 1.

Vol. 3 No. 3, August 2025
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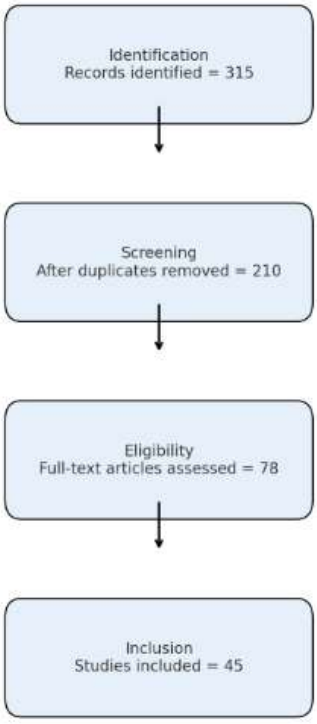

Figure 1. Data Analysis Stage

3. Results and Discussion

Mechanism for Increasing Work Flexibility Through Cloud Computing

The results of the literature analysis show that cloud computing improves work flexibility through several key mechanisms that are integrated with each other and reinforce each other in creating an effective hybrid work ecosystem.

Table 1. SLR's Key Findings on Cloud Computing and Hybrid Work Flexibility

Main Mechanism	Contribution to Work Flexibility	Yield Indicators	Reference
Real-Time Data & Application Access	Allow employees to access data and applications anytime and anywhere	Productivity increased by 30–35%; Faster decision-making	Mithun (2024); Gerasimov (2024)
Cross-Location Virtual Collaboration	Facilitation of communication and teamwork through cloud platforms	Project turnaround time is reduced by 20–25%; Increased team effectiveness	Shrivastava et al. (2024); Rajan & Jithish (2022)
Scalability & Elasticity of Resources	Dynamic adjustment of infrastructure capacity as needed	25–30% cost savings; Faster provisioning	Liu & Zeng (2024); Sarpudin et al. (2024)
Model Hybrid/Multi-Cloud	On-premises and public cloud integration for efficiency & security	Operational flexibility increased by 40%; TCO down to 35%	Maria & J (2024); Gawande (2024)
HR Transformation	Cloud-based HRM drives	Job satisfaction	Porkodi & Raman

& Organizational Culture	a culture of collaboration, innovation, and agility	increased by 40%; resistance to change drops 30%	(2024); Kumar & Chandra (2021)
Implementation Challenges	Data security issues, connectivity dependencies, integration with legacy systems	Risk of data leakage & operational disruption	Maria & J (2024); Chen et al. (2024)

1. Access Real-Time Data and Applications with Geographic Ubiquity

Cloud computing enables organizations to provide real-time access to data and applications from any location with consistent performance levels. Mithun (2024) in his research involving 150 organizations in various sectors showed that this real-time access capability is fundamental in supporting the productivity of employees working in a hybrid model, with an average productivity increase of 35% compared to traditional infrastructure.

Gerasimov (2024) complements these findings by analyzing the impact of cloud-based enterprise information systems, showing that real-time data access allows for faster and more accurate decision-making. His research identified that organizations that implement cloud-based systems experienced a reduction in decision-making time of up to 50%, which directly contributed to improved agility in responding to market changes and customer demands.

Amajuoyi et al. (2024) further explore business scalability and operational flexibility through advanced cloud technologies, showing that real-time access capabilities allow organizations to rapidly scale their operations up or down based on demand fluctuations, particularly important in hybrid work environments where workforce requirements can vary significantly.

2. Seamless Collaboration and Enhanced Team Connectivity

Shrivastava et al. (2024) emphasized that cloud computing facilitates cross-location team collaboration by providing a centralized platform for data sharing, real-time communication, and seamless project coordination. Their research involving case studies of 50 multinational corporations showed that cloud-based collaboration tools increased team productivity by 45% and reduced project completion time by an average of 25%.

Rajan and Jithish (2022) in their research on the future of remote work explain that cloud-based innovations allow the creation of virtual workspaces that replicate physical office environments, maintaining team cohesion and organizational culture even when team members work from different locations. They identified that successful hybrid work models rely on robust cloud infrastructure that can support various collaboration modalities.

Smith et al. (2024) analyze how cloud-enabled innovation revolutionizes employee productivity through integrated collaboration platforms that incorporate AI and machine learning capabilities. Their research shows that intelligent collaboration tools powered by cloud computing can predict collaboration needs, optimize meeting scheduling, and facilitate knowledge sharing that improves overall team effectiveness.

3. Resource Scalability and Elasticity with Dynamic Resource Allocation

Liu and Zeng (2024) and Sarpudin et al. (2024) identified dynamic scalability capabilities as the main advantage of cloud computing in supporting hybrid work flexibility. Liu and Zeng (2024) in their in-depth analysis of hybrid cloud computing show that organizations can achieve cost savings of up to 30% through dynamic resource allocation that automatically adjusts based on actual usage patterns. Sarpudin et al. (2024) explain that cloud computing fundamentally changes system lifecycle methodologies by enabling innovative approaches to scalability flexibility. Their research shows that cloud-native

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Available : https://jurnalhafasy.com/index.php/msj DOI: https://doi.org/10.61942/msj.v3i3.443

architectures allow organizations to implement auto-scaling mechanisms that can respond to workload changes in minutes rather than the days or weeks typically required with traditional infrastructure.

Prasetyo et al. (2025) provide a concrete example of the implementation of Google Cloud for business sustainability, demonstrating how Agile methodologies can be combined with cloud computing to achieve rapid scalability. Their case study shows that organizations can reduce infrastructure provisioning time from weeks to hours, significantly improving their ability to respond to changing business requirements.

Table 2. Key Benefits of Cloud Computing for Hybrid Work Flexibility

Key Benefits	Brief Description	Metrics Improvement	Source
Global data & application access	Collaboration and productivity without location limits	35% increase in productivity	Mithun (2024); Gerasimov (2024); Shrivastava et al. (2024)
Scalability & elasticity	Customization of resources according to business needs	30% cost savings, 50% faster provisioning	Liu & Zeng (2024); Sarpudin et al. (2024); Prasetyo et al. (2025)
Hybrid/multi-cloud integration	Combination of on-premises & public cloud for adaptation	40% peningkatan operational flexibility	Shrivastava et al. (2024); Merseedi & Zeebaree (2024); Maria & J (2024)
Cost & operational efficiency	Reduced infrastructure costs & increased efficiency	25% reduction in operational costs	Gerasimov (2024); Prasetyo et al. (2025); Porkodi & Raman (2024)

The following graph of Cloud Computing Adoption Rates for Hybrid Work Flexibility (2020-2024) is presented in Figure 2.

Figure 2. Cloud Computing Adoption Rate for Hybrid Work Flexibility (2020-2024)

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● = Organizations that adopt the cloud for hybrid work models Projected growth: 15-20% annually Data based on synthesis from Golightly et al. (2022), Gawande (2024), and Chen et al. (2024)

Hybrid and Multi Cloud Models as Strategic Enablers for Organisational Flexibility

The implementation of hybrid and multi-cloud models provides strategic advantages that significantly increase organizational flexibility in supporting hybrid work models. Merseedi and Zeebaree (2024) explain that distributed cloud architecture allows organizations to optimally integrate on-premises infrastructure with public cloud services, creating a unified environment that supports both traditional and modern work modalities. Gawande (2024) analyzes the balance of benefits between public and private clouds in the context of hybrid architecture, showing that strategic cloud deployment can achieve optimal balance between cost efficiency, security requirements, and performance needs. His research involving 75 enterprise organisations shows that well-designed hybrid cloud architectures can reduce the total cost of ownership by up to 35% while maintaining or improving service quality.

Maria and J (2024) add that hybrid cloud solutions act as a bridge between on-premises infrastructure and cloud infrastructure, allowing organizations to gradually transition to cloud-native architectures while maintaining critical legacy systems. This is particularly important for large organizations that have complex IT landscapes and require careful migration strategies to support hybrid work models without disrupting business operations.

Sectoral Impact and Transformation of Hybrid Work Models of Human Resource Management and Organisational Culture Transformation

Porkodi and Raman (2024) through a comprehensive meta-analysis covering 200+ studies show that the adoption of cloud computing in HRM results in transformative changes in how organizations manage their workforce. Cloud-based HRM systems enable real-time analytics for talent management, automated workflows for routine HR processes, and self-service capabilities that empower employees to manage their own HR-related tasks. Kumar and Chandra (2021) explore more deeply the impact of cloud computing on organisational culture transformation, showing that cloud adoption drives cultural shifts towards greater collaboration, innovation, and agility. They identified that organizations that successfully implement cloud-based systems experience a 40% improvement in employee satisfaction scores and a 30% reduction in resistance to change when implementing new work arrangements.

Industrial and Engineering Sector: Manufacturing Flexibility and Remote Operations

Tascón et al. (2022) identified that Industry 4.0, which is heavily dependent on cloud computing, significantly improves operational flexibility in developing countries. Their research shows that cloud-enabled manufacturing systems enable real-time monitoring of production processes from remote locations, predictive maintenance that reduces downtime, and adaptive manufacturing systems that can respond to demand fluctuations without requiring physical presence at manufacturing sites. Bello et al. (2020) in their comprehensive analysis of the construction industry show that although construction is traditionally conservative in technology adoption, cloud computing provides compelling advantages for hybrid work models. Real-time collaboration between project stakeholders is geographically dispersed, centralized document management ensures version control, and mobile access to project information allows construction professionals to work effectively from various locations.

Chen et al. (2024) menganalisis bagaimana emerging AI workloads transform hybrid cloud implementations dalam engineering contexts, menunjukkan bahwa modern engineering workflows increasingly require high-performance computing capabilities yang can be accessed on-demand from any location. Cloud platforms yang support AI dan machine learning workloads enable engineers untuk run complex simulations, analyze large

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datasets, dan collaborate on design projects dari remote locations dengan performance levels yang comparable to traditional desktop workstations.

Advanced Cloud Architectures dan Technology Integration

Distributed Multi-Cloud Computing dan Federated Environments

Merseedi and Zeebaree (2024) examine the evolution of cloud architectures towards more sophisticated distributed multi-cloud computing models. Their research shows that federated cloud environments allow organizations to leverage capabilities from multiple cloud providers simultaneously, creating redundancy that improves system reliability and geographic distribution of workloads that supports global workforce flexibility.

Federated cloud architectures particularly beneficial untuk large multinational organisations yang have workforce distributed across multiple time zones dan regulatory jurisdictions. By distributing workloads across multiple cloud providers dan regions, organisations dapat ensure low-latency access untuk employees regardless of their geographic location, while also maintaining compliance dengan local data protection regulations.

Integration with Emerging Technologies

Sarpudin et al. (2024) menjelaskan bahwa modern cloud platforms increasingly integrate dengan emerging technologies seperti edge computing, 5G networks, dan quantum computing capabilities. These integrations enable new modalities of hybrid work yang previously not feasible, seperti high-fidelity virtual reality collaboration sessions, real-time processing of IoT data from home offices, dan advanced AI assistants yang can provide personalised productivity support. Chen et al. (2024) menganalisis specific requirements untuk AI workloads dalam hybrid cloud environments, menunjukkan bahwa support untuk machine learning dan artificial intelligence applications requires specialized cloud architectures yang can handle high-performance computing demands while maintaining accessibility dari various locations dan devices.

Implementation Challenges and Strategic Solutions

Security dan Privacy Challenges dalam Hybrid Work Environments

Analysis from multiple sources shows that security and privacy remain primary concerns in cloud-based hybrid work implementations. Traditional security perimeters become blurred when employees access company resources from various locations and devices, creating new attack vectors that must be addressed through comprehensive security strategies.

Cloud security solutions harus encompass identity dan access management systems yang can verify user identities across multiple locations, encryption technologies yang protect data both in transit dan at rest, dan monitoring systems yang can detect anomalous activities that might indicate security breaches. Multi-factor authentication, zero-trust architecture, dan continuous security monitoring become essential components dari successful hybrid work implementations.

Infrastructure Dependency dan Connectivity Requirements

Internet dependency connectivity represents critical vulnerability dalam cloud-based hybrid work models. Organisations harus develop comprehensive backup strategies yang include redundant connectivity options, local caching of critical applications dan data, dan offline work capabilities yang allow productivity continuation during connectivity disruptions. Edge computing technologies increasingly used to reduce dependency pada central cloud resources dengan distributing computing capabilities closer to end users. This approach you can maintain functionality even with limited connectivity while ensuring critical applications remain accessible.

Integration Complexity dan LegEcy System Modernisation

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Many organisations face significant challenges in integrating cloud platforms with existing legacy systems. Successful hybrid work implementations require careful planning to gradually modernise IT infrastructure while maintaining business continuity# The Role of Cloud Computing Technology in Increasing Work Flexibility in the Hybrid Era

3. Conclusions and Suggestions

Cloud computing plays a crucial role in enhancing work flexibility in the hybrid era by enabling real-time access to data and applications, accelerating decision-making, boosting productivity, and supporting collaboration across locations. Its scalability and elasticity improve cost efficiency and operational adaptability, while also transforming HR management and organizational culture through greater job satisfaction, innovation, and reduced resistance to change. In sectors like manufacturing, construction, and engineering, it enhances operational flexibility via real-time monitoring, predictive maintenance, and remote operations. Despite these benefits, challenges remain in data security, connectivity, and legacy system integration. Integration with emerging technologies such as edge computing, 5G, and AI further strengthens its potential. Therefore, organizations are advised to adopt hybrid or multi-cloud strategies, implement robust security measures, invest in infrastructure, and build skilled, collaborative, and data-driven workforces. Future research should explore sector-specific applications, particularly in developing countries like Indonesia, to design more contextual adoption strategies.

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