

Influence of Cloud Technologies on Strategic IT Planning and Digital Transformation in Modern Enterprises

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Abstract

Cloud computing has emerged as a transformative paradigm reshaping enterprise operations across global industries. This research investigates the influence of cloud technologies on strategic IT planning and digital transformation in modern enterprises. The primary objectives include examining the relationship between cloud adoption and organizational performance, identifying key factors affecting cloud-based strategic planning, evaluating the impact of cloud services on business agility and operational efficiency, and analyzing security challenges associated with cloud implementation. The study employs a descriptive research methodology utilizing secondary data analysis with quantitative assessment of enterprise cloud adoption statistics, market trends, and performance indicators from 2020-2023. The hypothesis posits that organizations implementing comprehensive cloud strategies demonstrate significantly higher digital transformation success rates compared to non-adopters. Results indicate that 94% of enterprises utilized cloud services by 2023, with organizations reporting 20-30% operational cost reductions and enhanced business agility. Cloud adoption contributed to 14% improvement in organizational performance goals achievement. However, 39% of businesses experienced cloud-related security incidents in 2023, emphasizing the need for robust governance frameworks. The study concludes that strategic cloud integration significantly accelerates digital transformation, though organizations must balance innovation with comprehensive security measures and effective IT governance to maximize value creation.

Keywords: Cloud Computing, Digital Transformation, Strategic IT Planning, Enterprise Technology, Business Agility.

1. Introduction

The contemporary business landscape is witnessing unprecedented technological evolution, with cloud computing establishing itself as the cornerstone of enterprise digital transformation. Cloud computing, as defined by the National Institute of Standards and Technology (NIST), represents a model enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources that can be rapidly provisioned and released with minimal management effort (Mell & Grance, 2011). This paradigm shift from traditional on-premises infrastructure to cloud-based services has fundamentally altered how organizations conceptualize and implement their IT strategies (Buyya et al., 2009). The significance of cloud technologies extends beyond mere technological upgrade; it represents a strategic business imperative that influences organizational competitiveness, operational efficiency, and innovation capabilities. Gartner, Inc. forecasts that in 2023, worldwide public cloud spending will grow 20.7% to total



\$591.8 billion, up from \$490.3 billion in 2022. This substantial investment trajectory underscores the strategic importance organizations place on cloud adoption as a mechanism for achieving competitive advantage (Armbrust et al., 2010).

The integration of cloud computing with strategic IT planning has become increasingly critical as organizations navigate the complexities of digital transformation. 72% of cloud decision-makers view digital transformation as something more than a simple lift-and-shift exercise where systems are moved from data centers to the cloud. This perspective reflects the evolving understanding of cloud computing as an enabler of comprehensive organizational transformation rather than a mere infrastructure modification (Westerman et al., 2014). Modern enterprises are leveraging cloud technologies to enhance business agility, improve customer experiences, and develop innovative products and services at unprecedented speeds. The research addresses a critical gap in understanding how cloud technologies influence strategic IT planning decisions and their subsequent impact on digital transformation outcomes. While previous studies have examined cloud adoption factors and technical implementations, limited research has synthesized the strategic implications of cloud technologies on enterprise transformation initiatives (Plekhanov et al., 2023). 47% of cloud decision-makers say digital transformation means optimizing processes and becoming more operationally agile, and another 40% say it's improving customer experience. These statistics highlight the multifaceted nature of cloud-enabled transformation that this research seeks to comprehensively examine.

2. Literature Review

The academic discourse surrounding cloud computing and digital transformation has evolved significantly over the past decade. Early research focused primarily on technical aspects of cloud infrastructure, while contemporary studies increasingly examine organizational and strategic dimensions of cloud adoption (Golightly et al., 2022). The theoretical foundation for understanding cloud computing's organizational impact draws from multiple disciplines including information systems, strategic management, and organizational behavior. The Technology-Organization-Environment (TOE) framework has emerged as a predominant theoretical lens for examining cloud adoption decisions. Al Hadwer et al. (2021) explored the TOE framework systematically, revealing that top management support, relative advantage, and cloud complexity significantly influence organizational attitudes toward cloud adoption. This finding aligns with earlier work by Low et al. (2011), who identified organizational readiness and perceived benefits as critical determinants of cloud computing adoption in high-tech industries. Research on cloud computing's impact on organizational performance demonstrates substantial positive outcomes. IT leaders and practitioners that use cloud computing are 14% more likely to exceed organizational performance goals than peers that do not. This performance advantage reflects the operational efficiencies and strategic capabilities that cloud technologies provide (Bharadwaj et al., 2013). Furthermore, studies indicate that cloud adoption enables organizations to respond more rapidly to market changes and customer demands through enhanced scalability and flexibility.

The relationship between cloud computing and digital transformation has garnered increasing scholarly attention. The majority of respondents in 2023 reported that technology investments improve profits or performance by over 10%, a significant increase from 2022's improvement of just 2.5%. This improvement trajectory suggests that organizations are becoming more effective at leveraging cloud technologies for business value creation (Akter et al., 2022). The



literature emphasizes that successful digital transformation requires alignment between cloud strategy and broader business objectives. Multi-cloud and hybrid cloud strategies have emerged as dominant approaches in enterprise cloud adoption. 93% of organizations adopting multi-cloud approaches to enhance their business agility and innovation. This trend reflects organizational recognition that single-provider dependencies create risks while multi-cloud environments offer flexibility, redundancy, and optimization opportunities (Schneckenberg et al., 2021). Research indicates that organizations with mature multi-cloud strategies demonstrate superior resilience and adaptability.

Security remains a paramount concern in cloud computing literature. The Thales 2023 Cloud Security Study found that more than a third (39%) of businesses have experienced a data breach in their cloud environment last year, an increase on the 35% reported in 2022. Furthermore, human error was reported as the leading cause of cloud data breaches by over half (55%) of those surveyed. These findings underscore the critical importance of robust security governance frameworks and comprehensive employee training programs (Hashizume et al., 2013).

The impact of cloud computing on IT governance structures represents an evolving research domain. Cloud computing seems to affect the technological and strategical aspects of IT governance, as well as the business transformation. Organizations must adapt traditional IT governance frameworks to accommodate the shared responsibility models inherent in cloud computing environments (Prasad & Green, 2015). This adaptation requires new competencies, processes, and control mechanisms. Small and medium enterprises (SMEs) represent a significant segment of cloud computing research. Khayer et al. (2021) found that cloud computing adoption in SMEs is influenced by factors including perceived usefulness, ease of use, and organizational culture. Small and medium enterprises find employing third-party cloud platforms 40% more cost-effective than maintaining an in-house system. This cost advantage makes cloud computing particularly attractive for resource-constrained organizations seeking competitive capabilities. The COVID-19 pandemic significantly accelerated cloud adoption globally. Singh et al. (2021) documented how cloud computing enabled organizations to rapidly transition to remote work environments while maintaining operational continuity. Due to the COVID-19 Pandemic, which caused a reliance on remote work, 61% of businesses migrated their workloads to the cloud. This unprecedented migration highlighted both the transformative potential and the challenges associated with rapid cloud adoption.

3. Objectives

1. To examine the relationship between cloud technology adoption and strategic IT planning effectiveness in modern enterprises.
2. To evaluate the impact of cloud computing on digital transformation success rates and organizational performance indicators.
3. To analyze the key factors influencing cloud-based strategic decisions including cost efficiency, scalability, and business agility.
4. To investigate the security challenges and governance requirements associated with enterprise cloud implementation.



4. Methodology

The present study adopts a descriptive research design employing secondary data analysis methodology to investigate the influence of cloud technologies on strategic IT planning and digital transformation in modern enterprises. This approach enables comprehensive examination of existing empirical evidence, industry reports, and statistical data from multiple authoritative sources to develop robust conclusions regarding the research objectives. The research design incorporates quantitative assessment of enterprise cloud adoption statistics, market trends, and performance indicators spanning the period 2020-2023. Secondary data sources include peer-reviewed academic journals, industry research reports from organizations including Gartner, Flexera, and McKinsey, government publications from agencies such as NIST and Eurostat, and corporate surveys conducted by major technology organizations. This multi-source approach enhances data validity through triangulation and provides comprehensive market coverage. The sampling framework encompasses global enterprise data with particular emphasis on Fortune 500 companies, SMEs, and organizations across diverse industry sectors including technology, healthcare, financial services, manufacturing, and retail. The selection criteria prioritize recency (2020-2023), methodological rigor, and geographic diversity to ensure representativeness. Data from over 3,000 respondents across 18 countries informed security-related findings, while cloud adoption statistics drew from surveys of 750+ IT professionals.

The analytical techniques employed include statistical analysis of adoption rates, market share distributions, cost-benefit assessments, and performance metrics. Comparative analysis examines differences between cloud adopters and non-adopters, while trend analysis identifies temporal patterns in cloud adoption and digital transformation outcomes. The study utilizes established statistical measures including compound annual growth rates (CAGR), market share percentages, and cost-benefit ratios. Research instruments include standardized industry surveys, market research reports, and academic databases including Google Scholar, IEEE Xplore, and ScienceDirect. Data collection focused on cloud computing adoption rates, enterprise spending patterns, digital transformation outcomes, security incidents, and organizational performance improvements. The synthesis of multiple data sources enables comprehensive understanding of cloud computing's strategic implications. Ethical considerations were addressed through exclusive use of publicly available secondary data, proper attribution of sources, and adherence to academic integrity standards. Limitations include reliance on secondary data, potential reporting biases in industry surveys, and regional variations in cloud adoption patterns. These limitations are acknowledged in interpreting findings and drawing conclusions.

5. Results

The analysis reveals significant patterns in cloud technology adoption and its impact on strategic IT planning and digital transformation. The following tables present key findings from the data analysis.

Table 1: Global Cloud Computing Market Growth (2020-2023)

Year	Market Value (USD Billion)	Growth Rate (%)	Enterprise Adoption (%)
2020	371.4	17.5	89
2021	410.6	18.4	91



2022	490.3	19.4	93
2023	591.8	20.7	94

Source: Gartner, Inc. (2023); Flexera State of the Cloud Report (2023)

Table 1 demonstrates the consistent growth trajectory of the global cloud computing market from 2020 to 2023. The market expanded from \$371.4 billion in 2020 to \$591.8 billion in 2023, reflecting a compound annual growth rate exceeding 16%. Enterprise adoption rates increased progressively from 89% in 2020 to 94% in 2023, indicating near-universal cloud utilization among organizations. This growth pattern confirms the strategic importance organizations place on cloud technologies as enablers of digital transformation and competitive advantage in contemporary business environments.

Table 2: Cloud Service Provider Market Share Distribution (2022-2023)

Provider	2022 Market Share (%)	2023 Market Share (%)	Primary Service Focus
AWS	34	32	IaaS, PaaS
Microsoft Azure	21	23	Hybrid Cloud, SaaS
Google Cloud	10	11	AI/ML, Data Analytics
Alibaba Cloud	5	4	Asia-Pacific Market
Others	30	30	Specialized Services

Source: Synergy Research Group (2023); Gartner (2023)

Table 2 illustrates the competitive landscape among cloud service providers during 2022-2023. Amazon Web Services maintained market leadership with 32% share in 2023, though experiencing slight decline from 34% in 2022. Microsoft Azure demonstrated growth from 21% to 23%, driven by enterprise integration and hybrid cloud capabilities. Google Cloud increased marginally to 11%, leveraging strengths in artificial intelligence and data analytics. This market concentration among three major providers reflects economies of scale while creating considerations for vendor lock-in and multi-cloud strategies in enterprise strategic planning processes.

Table 3: Cloud Computing Benefits Realized by Enterprises (2023)

Benefit Category	Organizations Reporting (%)	Average Improvement
Cost Reduction	82	20-30% IT costs
Business Agility	74	32% faster response
Scalability	71	On-demand scaling
Innovation Capability	67	25% faster deployment
Remote Collaboration	63	60% improved efficiency

Source: McKinsey & Company (2022); Flexera State of the Cloud Report (2023)

Table 3 presents the benefits organizations realized through cloud computing adoption during 2023. Cost reduction emerged as the most widely reported benefit with 82% of organizations acknowledging IT cost savings averaging 20-30%. Business agility improvements were noted by 74% of enterprises, with organizations reporting 32% faster response to market changes. Scalability benefits (71%) and innovation capability enhancements (67%) further

demonstrate cloud computing's strategic value. These findings confirm that cloud technologies deliver measurable operational and strategic advantages supporting digital transformation objectives across enterprise contexts.

Table 4: Cloud Security Incidents and Challenges (2022-2023)

Security Metric	2022	2023	Change (%)
Organizations Experiencing Breach (%)	35	39	+11.4
Human Error Caused Breaches (%)	52	55	+5.8
Phishing Incidents (%)	73	58	-20.5
Average Breach Cost (USD Million)	4.35	4.45	+2.3
Organizations Increasing Security Budget (%)	54	60	+11.1

Source: Thales Cloud Security Study (2023); IBM Cost of Data Breach Report (2022)

Table 4 documents cloud security challenges confronting enterprises during 2022-2023. Organizations experiencing cloud-related breaches increased from 35% in 2022 to 39% in 2023, representing an 11.4% increase. Human error remained the leading cause, contributing to 55% of incidents in 2023. However, phishing incidents decreased significantly from 73% to 58%, suggesting improved security awareness. Average breach costs rose marginally to \$4.45 million in 2023. Notably, 60% of organizations planned security budget increases, demonstrating recognition of cloud security's critical importance in strategic IT planning frameworks.

Table 5: Cloud Adoption by Enterprise Size (2023)

Enterprise Category	Cloud Adoption (%)	Multi-Cloud Strategy (%)	Annual Cloud Spend (USD Million)
Large Enterprise (>1000 employees)	94	89	2.4+
Medium Enterprise (250-1000)	88	78	1.2-2.4
Small Enterprise (50-249)	79	62	0.5-1.2
Micro Enterprise (<50)	66	45	<0.5

Source: Flexera State of the Cloud Report (2023); Eurostat (2023)

Table 5 examines cloud adoption patterns across enterprise size categories in 2023. Large enterprises demonstrated highest adoption rates at 94% with 89% implementing multi-cloud strategies and annual spending exceeding \$2.4 million. Adoption rates decreased progressively with enterprise size, with micro enterprises showing 66% adoption and 45% multi-cloud utilization. This pattern reflects resource availability, technical expertise, and strategic IT planning maturity differences across organization sizes. The correlation between enterprise size and multi-cloud strategy adoption suggests that comprehensive cloud governance frameworks remain more accessible to larger organizations.

Table 6: Digital Transformation Drivers and Cloud Computing Role (2023)

Transformation Driver	Organizations Citing (%)	Cloud Contribution Level
Operational Efficiency	68	Critical (47%)
Customer Experience	40	High (38%)
Innovation/New Products	36	Critical (42%)



Competitive Pressure	41	High (35%)
Cost Optimization	61	Critical (45%)

Source: McKinsey Digital (2022); Gartner (2023); KPMG (2023)

Table 6 illustrates the relationship between digital transformation drivers and cloud computing contribution levels in 2023. Operational efficiency emerged as the primary transformation driver (68% of organizations), with cloud computing rated as critical by 47% of respondents. Cost optimization (61%) and competitive pressure (41%) represented significant motivators with high cloud contribution levels. The data confirms cloud computing's central role in enabling digital transformation across multiple strategic dimensions, supporting the hypothesis that cloud technologies function as foundational enablers of comprehensive organizational transformation rather than isolated technological implementations.

6. Discussion

The research findings reveal profound implications for understanding the relationship between cloud technologies, strategic IT planning, and digital transformation in modern enterprises. The analysis confirms the hypothesis that organizations implementing comprehensive cloud strategies demonstrate significantly enhanced digital transformation outcomes compared to non-adopters, with cloud users being 14% more likely to exceed organizational performance goals. The market growth trajectory documented in Table 1 reflects fundamental shifts in enterprise technology paradigms. The progression from \$371.4 billion in 2020 to \$591.8 billion in 2023 represents more than mere technological investment; it signifies strategic recognition of cloud computing as essential infrastructure for competitive positioning (Gartner, 2023). This growth occurred despite economic uncertainties, indicating that organizations view cloud investment as strategically imperative rather than discretionary. The near-universal adoption rate of 94% by 2023 suggests that cloud computing has transitioned from innovative technology to operational necessity, fundamentally altering strategic IT planning frameworks across industries.

The competitive dynamics among cloud service providers (Table 2) present significant strategic planning considerations for enterprises. The concentration of 66% market share among three providers creates both opportunities and challenges. While major providers offer comprehensive services, economies of scale, and continuous innovation, organizations must carefully evaluate vendor lock-in risks and develop multi-cloud capabilities to maintain strategic flexibility. The emergence of multi-cloud strategies adopted by 89% of organizations reflects sophisticated strategic responses to these market dynamics (Flexera, 2023). Organizations are increasingly recognizing that strategic cloud planning must incorporate provider diversification to optimize capabilities while minimizing dependencies. The benefits analysis in Table 3 demonstrates that cloud computing delivers measurable strategic advantages across multiple dimensions. The 20-30% cost reduction in IT expenditures represents substantial resource reallocation potential, enabling organizations to redirect investment toward innovation and growth initiatives (McKinsey, 2022). Business agility improvements of 32% faster market response directly support competitive positioning in rapidly evolving markets. These findings align with theoretical frameworks emphasizing cloud computing's role in enabling dynamic capabilities and organizational responsiveness (Teece, 2017). Strategic IT planners must quantify these benefits when developing cloud adoption business cases and transformation roadmaps.



Security challenges documented in Table 4 present critical strategic planning considerations. The increase in organizations experiencing breaches from 35% to 39% underscores that security risks evolve alongside cloud adoption expansion. The predominance of human error (55%) as breach cause emphasizes that technical security measures alone are insufficient; comprehensive governance frameworks incorporating training, awareness, and cultural change are essential components of strategic cloud planning. The increasing security investments (60% of organizations planning budget increases) indicate executive recognition of security's strategic importance, though the persistence of breaches suggests implementation gaps requiring attention in strategic planning processes. Enterprise size variations in cloud adoption (Table 5) reveal important patterns for strategic planning consideration. While large enterprises demonstrate near-universal adoption with sophisticated multi-cloud strategies, smaller organizations face adoption barriers including resource constraints, technical expertise limitations, and governance challenges. These findings have implications for strategic planning frameworks, suggesting that cloud strategies must be scaled appropriately to organizational capabilities while providing pathways for maturity development. Smaller enterprises may benefit from simplified cloud approaches initially, progressively developing more sophisticated multi-cloud capabilities as organizational maturity increases.

The relationship between digital transformation drivers and cloud contribution (Table 6) confirms cloud computing's central role in enabling comprehensive organizational transformation. The critical contribution of cloud technologies to operational efficiency (47%), innovation (42%), and cost optimization (45%) demonstrates that cloud computing functions as foundational infrastructure for transformation initiatives rather than isolated technological implementation. Strategic IT planners must integrate cloud strategy with broader digital transformation roadmaps, ensuring alignment between cloud capabilities and transformation objectives. The research findings have significant implications for IT governance frameworks. Traditional governance structures designed for on-premises infrastructure require adaptation to accommodate shared responsibility models, distributed architectures, and dynamic resource provisioning characteristic of cloud environments (Khalil et al., 2016). Strategic IT planning must incorporate governance considerations including compliance requirements, data sovereignty concerns, and security responsibilities across cloud provider relationships. Organizations with mature governance frameworks demonstrate superior cloud outcomes, suggesting that governance investment represents critical success factors for cloud-enabled transformation.

The COVID-19 pandemic's acceleration of cloud adoption provides important strategic planning lessons. Organizations that had invested in cloud capabilities prior to the pandemic demonstrated superior resilience and adaptability during disruption (Singh et al., 2021). This experience underscores the strategic value of cloud computing not merely as efficiency enabler but as organizational resilience infrastructure. Strategic IT planning frameworks should incorporate resilience considerations, evaluating cloud architectures for their capacity to support business continuity during disruptions.

7. Conclusion

This research comprehensively examined the influence of cloud technologies on strategic IT planning and digital transformation in modern enterprises, revealing significant findings with practical implications for organizational



strategy. The analysis confirms that cloud computing has evolved from emerging technology to strategic imperative, with 94% enterprise adoption by 2023 and market value reaching \$591.8 billion. Organizations implementing comprehensive cloud strategies demonstrate measurable advantages including 20-30% cost reductions, 32% improvement in business agility, and 14% higher likelihood of exceeding performance goals compared to non-adopters. The research objectives were systematically addressed through analysis of market data, adoption patterns, and performance indicators. Cloud computing demonstrates critical contribution to digital transformation across multiple dimensions including operational efficiency, customer experience enhancement, and innovation capability development. The relationship between cloud adoption and strategic IT planning effectiveness is strongly positive, though contingent upon appropriate governance frameworks, security measures, and organizational capabilities.

Security challenges represent significant strategic planning considerations, with 39% of organizations experiencing cloud-related breaches in 2023 and human error contributing to 55% of incidents. These findings emphasize that technical cloud implementation must be accompanied by comprehensive governance frameworks incorporating security policies, employee training, and continuous monitoring capabilities. Strategic IT planners must balance transformation ambitions with risk management requirements, developing cloud strategies that optimize value creation while maintaining acceptable risk profiles. The study contributes to theoretical understanding by demonstrating cloud computing's role as foundational infrastructure for digital transformation rather than isolated technological implementation. Practical implications include recommendations for strategic IT planners to develop comprehensive cloud strategies aligned with transformation objectives, implement robust governance frameworks, invest in security capabilities, and evaluate multi-cloud approaches to optimize flexibility while managing vendor dependencies. Future research should examine longitudinal transformation outcomes, industry-specific cloud strategy variations, and emerging technologies including edge computing and artificial intelligence integration with cloud platforms. As cloud computing continues evolving, strategic IT planning frameworks must adapt accordingly, maintaining alignment between technological capabilities and organizational transformation objectives.

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