

White Paper

Comparison of Benefits and Drawbacks of Cloud Environments for Document Assembly

OVERVIEW

Positives and Negatives of Document Assembly and Automation in the Cloud

REASONS TO USE THE CLOUD	REASONS TO AVOID THE CLOUD
Accessibility and Collaboration	Dependency on Internet Connectivity
Scalability	Security and Privacy Concerns
Cost-Effectiveness	Control and Ownership
Security	Cost Over Time

Overview

Cloud-based document assembly and automation solutions present a compelling option for modern businesses, given the numerous advantages they offer in terms of accessibility, scalability, security, and cost management. However, these benefits come with certain challenges that organizations must carefully consider before making a decision and some of the reported advantages have become dated with advances in competitive technologies. This article will delve into these factors to provide analysis of why cloud-based solutions might be a strong argument and under what circumstances the counterpoints hold significant weight.

ACCESSIBILITY AND COLLABORATION: KEY ADVANTAGES

One of the most significant strengths of cloud-based solutions is their ability to facilitate remote work and collaboration. In the current global business environment, the demand for flexible working conditions has skyrocketed. Cloud-based document assembly allows employees to access and work on documents from any location with an internet connection. This is not just a convenience but a necessity for organizations with distributed teams, international operations, or a significant number of remote workers.

Real-time collaboration features are a game-changer. They eliminate the cumbersome process of sending documents back and forth via email, which can

lead to version control issues, delays, and security concerns. Instead, team members can work on the same document simultaneously, see each other's changes in real time, and communicate more effectively. This enhances productivity and ensures that projects move



forward without unnecessary interruptions. However, all of these features have become widely available and are no longer solely available within the cloud environment.

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SCALABILITY: ADAPTING TO BUSINESS NEEDS

Scalability is another critical benefit of cloud-based document assembly solutions. Businesses are dynamic entities, and their needs can change rapidly. Cloud solutions offer the flexibility to scale resources up or down based on current requirements. For example, a company experiencing rapid growth can quickly add more storage or user licenses without the need for significant upfront investments. Conversely, during periods of reduced activity, they can scale down their usage and costs accordingly.

This adaptability is particularly valuable for businesses with seasonal fluctuations or those embarking on new projects that require temporary increases in capacity. It ensures that organizations only pay for what they need when they need it, optimizing resource utilization and cost efficiency.

SECURITY AND DATA PROTECTION: A DOUBLE-EDGED SWORD

Security is a critical consideration for any organization handling sensitive data. Cloud providers often invest heavily in advanced security measures that include data encryption, regular backups, and compliance with industry standards and regulations. For many small to medium-sized businesses, leveraging the robust security infrastructure of a reputable cloud provider can offer better physical protection than they could afford to implement on their own.

However, this benefit comes with serious potential risks. Storing sensitive

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data in the cloud introduces concerns about data breaches and unauthorized access. High-profile incidents of cloud security breaches have made headlines, highlighting the vulnerabilities that can exist even with advanced security measures in place. There is substantial truth to the observation that

larger targets attract larger threats. Organizations must ensure that their cloud provider follows stringent security protocols and has a clear and transparent data protection policy. The chain of vendors needed to create and support a "Cloud" is lengthy, and the result is only as strong as its weakest link. Unfortunately, as the

recent Crowdstrike incident made clear — involving a vendor that few had previously ever heard of — the very tools used to provide security can represent a threat to security. When that happens even the largest customer/user may be too small to influence the outcome.

Compliance with data protection regulations is another important aspect. Different industries and regions have specific regulatory requirements regarding data storage and handling. Organizations must verify that their cloud provider complies with relevant regulations to avoid legal complications and potential fines because when a leak occurs the customer/user may be held culpable along with the provider.

COST MANAGEMENT: INITIAL SAVINGS VS. LONG-TERM EXPENSES

One of the most attractive aspects of cloud-based solutions is the reduction in upfront costs. Traditional on-premises solutions require significant capital expenditure on hardware, software, and infrastructure. In contrast, cloud services operate on a subscription model, transforming these capital expenses into more manageable operational expenses. This shift allows businesses to better manage their cash flow and avoid large initial investments.

Additionally, maintenance and upgrades are handled by the cloud provider, reducing the burden on internal IT teams and further lowering operational costs. This is particularly beneficial for small businesses that may lack the resources to maintain and upgrade their infrastructure regularly.



However, while the initial cost savings can be significant, organizations must consider the long-term financial implications. Subscription fees, additional charges for storage, advanced features, and higher service levels can accumulate over time. For long-term use, these recurring costs can become substantial, potentially surpassing the expenses associated with on-premises solutions. Businesses must conduct a thorough cost-benefit analysis to determine whether the long-term costs of cloud services align with their financial strategies.

DEPENDENCE ON INTERNET CONNECTIVITY: A CRITICAL VULNERABILITY

One of the primary disadvantages of cloud-based solutions is their reliance on a stable and reliable internet connection and other components of the digital infrastructure. Accessing cloud services requires an uninterrupted connection, and any disruption can hinder business operations. This dependency is particularly problematic in situations or regions with poor internet infrastructure, during times of network outages, or when prevented by the local environment.

Organizations must assess their internet reliability and consider backup solutions to mitigate this risk. In scenarios where constant access to documents is critical, having redundant internet connections or offline access capabilities can



be essential. This ensures that business operations remain unaffected during connectivity issues, maintaining productivity and continuity. In other words, using the Cloud may mean using local resources as well when the need for reliable access is great.

Longer transmission distances, even with

the latest technology, can result in significant aggregate latency, the often minuscule delays between computer actions and micro-results that can add up. This can be particularly irksome when the program itself is in the cloud while the user and data are local.

DATA OWNERSHIP AND CONTROL: BALANCING CONVENIENCE WITH SECURITY

Using a third-party cloud service means relinquishing control over data storage and management. This can be a significant concern for organizations that handle highly sensitive or proprietary information. The potential risk of a cloud provider going out of business or issues arising when switching providers can lead to complications in data ownership and continuity.

Organizations must ensure that they have clear agreements regarding data ownership and portability under the laws of the jurisdiction affecting the cloud

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provider. Understanding the terms of service and the provider's policies on data retrieval and migration is crucial. In addition, implementing strategies such as regular data exports and backups can provide an added layer of loss of use security and control, but will do little to prevent misuse by a third party or government.



This can be particularly difficult in an era when subpoenas and non-disclosure orders are served on third-party digital vendors.

CONTEXT-SPECIFIC CONSIDERATIONS

The decision to adopt cloud-based document assembly solutions should be context-specific, taking into account the unique needs and circumstances of the organization. For many modern businesses, especially those that prioritize flexibility, collaboration, and cost-effective scalability, the benefits of cloud-based solutions can seem compelling. The ability to quickly adapt to changing business needs, access advanced security measures, and manage costs effectively can provide a significant competitive advantage.

Conversely, organizations that handle highly sensitive data, operate in regions or environments with unreliable internet connectivity, or have stable long-term infrastructure needs may find the drawbacks more significant. For these organizations, on-premises solutions or hybrid approaches that combine cloud and local storage might be more appropriate.

AI: A DIFFERENT MATTER ENTIRELY

Recent interest and growth in the use of Artificial Intelligence dramatically



increases the need to consider two specific issues: Privacy and Ownership. Once material is uploaded to an Al engine, there can be no assurance of privacy. In addition, as that material becomes feedstock for the use of others, many of the artifacts of ownership may be transferred from the user of the Al engine to its owner. It becomes a source of the raw materials needed to feed the

business model. The resulting threats to confidentiality, ownership and security are too many to include in this paper.

Conclusion: Making an Informed Decision

The decision to implement a cloud-based document assembly solution is multifaceted, involving a careful consideration of both the benefits and the challenges. Organizations must evaluate their specific needs, appetites for risks, and long-term goals to make an informed choice.

Cloud-based solutions may offer advantages in terms of accessibility, collaboration, scalability, security, and cost management. These benefits are particularly appealing in today's fast-paced, flexible work environment where remote work and real-time collaboration are becoming the norm. The ability to scale resources according to demand and leverage advanced security measures without significant upfront investments can provide a strong foundation for business growth and efficiency.

However, potential challenges such as dependence on reliable internet connectivity, risks of data breaches, concerns over data control, and long-term cost implications cannot be ignored. Organizations handling sensitive data or those with specific compliance requirements must take additional precautions to ensure that their data is adequately protected and that their long-term costs remain manageable. Finally, manufacturers are building many of the "cloud advantages" into base models of their programs. Microsoft's Word®, for instance, includes nearly all the most widely-used "cloud" features in its standard program, including accessibility and collaboration, automated updates, subscription pricing, and scalability.

Ultimately, the decision should be guided by a thorough analysis of the organization's unique context, including its operational needs, risk tolerance, and financial strategies. By weighing the pros and cons carefully, businesses can choose a solution that aligns with their goals and supports their growth and success in the digital age.

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