

# Review of: "Pros and Cons of Key Escrow Agreements in Cloud"

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Potential competing interests: No potential competing interests to declare.

Dear Editor

## Evaluation of this Research Paper

The research paper "**Pros and Cons of Key Escrow Agreements in Cloud**" provides a comprehensive and well-organized exploration of key escrow services in cloud computing. It is informative and offers valuable insights for decision-makers. However, the quality of writing could be improved with careful editing for grammar and clarity. The professional tone is generally maintained, making it suitable for an academic audience. The paper successfully balances technical details with broader implications, making it a useful resource for both technical and non-technical readers.

The abstract provides a clear overview of the research's focus on key escrow services in cloud computing. It highlights the motivation behind using encryption and the associated challenges, such as key management and the risks of manual handling. The purpose of the research—to assess the pros and cons of key escrow services—is well stated. The abstract is well-structured, introducing the problem, the relevance of the study, and the objective. It effectively sets the stage for the detailed discussion in the paper. The abstract maintains a professional tone appropriate for academic writing. However, minor improvements in sentence structure could enhance clarity and flow.

The language is generally clear, but there are some grammatical errors and awkward phrasings that slightly impact readability. For example, "had been raised" should be "have been raised," and "loose" should be "loss."

## Paper Evaluation:

1. **Introduction and Background:** The introduction provides a comprehensive background on the need for encryption in cloud environments and the challenges associated with key management. The paper effectively contextualizes the problem and the relevance of key escrow services.
2. **Methodology:** The description of the key escrow methodology and the historical context of the Clipper Chip initiative is detailed. However, the transition between topics could be smoother, and more emphasis could be placed on explaining technical terms for broader accessibility.
3. **Analysis of Pros and Cons:** The sections on the advantages and disadvantages of key escrow services are well-organized. The paper presents a balanced view, acknowledging both the benefits (e.g., recovery of encrypted data)

and the risks (e.g., potential abuse and security concerns).

4. **Depth and Detail:** The paper delves deeply into various aspects of key escrow services, including legal, technical, and operational considerations. It covers potential issues such as vendor lock-in, compliance challenges, and security risks, providing a thorough examination of the topic.
5. **Language and Grammar:** Similar to the abstract, the main body contains some grammatical errors and awkward phrasings. For instance, "going with key escrow solutions lead to new kind of attacks" should be "going with key escrow solutions leads to new kinds of attacks."
6. **Conclusion and Recommendations:** The conclusion effectively summarizes the key points and provides practical recommendations for organizations considering key escrow services. It emphasizes the importance of due diligence and regulatory compliance.