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KEY BENEFITS, CHALLENGES, AND RISK OF CLOUD BUSINESS INTELLIGENCE: A SYSTEMATIC LITERATURE REVIEW

Elisa Indriasari ⁽¹⁾ Harjanto Prabowo ⁽²⁾ Meyliana ⁽³⁾ Achmad Nizar Hidayanto ⁽⁴⁾

⁽¹⁾ Computer Science Department, BINUS Graduate Program – Doctor of Computer Science, BINUS University, Jakarta, Indonesia.

⁽²⁾ Computer Science Department BINUS Graduate School - Doctor of Computer Science, BINUS University, Jakarta, Indonesia.

⁽³⁾ Information Systems Department, School of Information Systems, BINUS University, Jakarta, Indonesia.

⁽⁴⁾ Faculty of Computer Science, University of Indonesia, Jakarta Pusat, Indonesia.

Abstract

The emergence of cloud Business Intelligence (cloud BI) attracted business world. Cloud BI considered as affordable data analytics application. Cloud BI offers great benefits, despite its many challenges. In this paper, we conduct the Systematic Literature Review (SLR) research method for identifying key benefits, challenges, and risk of cloud-based Business Intelligence. Our final finding is are commendation approach for both vendors and users to anticipate risk and vulnerabilities in the deployment of cloud BI. Furthermore, stakeholders can get the benefits of cloud BI innovation.

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Reference

References (26)

1. C. M. Olszak

Toward Better Understanding and Use of Business Intelligence in Organizations

(2016) *Information Systems Management*, Volume 33, Issue 2, Page No 105–123,

2. B. M. Balachandran and S. Prasad

Challenges and Benefits of Deploying Big Data Analytics in the Cloud for Business Intelligence

(2017) *Procedia Computer Science*, Page No 112,

3. J. Ricardo, J. Bernardino, and A. Almeida
Cloud Business Intelligence for Virtual Organizations

(2008) *Proceedings of the 2014 International C* Conference on Computer Science & Software Engineering*, Page No 1–7,
DOI: <https://doi.org/10.1145/2641483.2641520>

4. H. Baars and H.-G. Kemper
Business Intelligence in the Cloud?

(2010) *Pacific Asia Conference on Information Systems*, Volume 1, Page No 1528–1539,

5. S. Ouf and M. Nasr
Business Intelligence in the Cloud

(2011) *IEEE 3rd International Conference on Communication Software and Networks*, Volume 12, Issue 1, Page No 650–655,

6. Y. S. Gurjar and V. S. Rathore
Cloud business intelligence - is what business need today

(2013) *International Journal of Recent Technology and Engineering*, Volume 1, Issue 6, Page No 81–86,

7. V. Herwig
Business intelligence as a service for Cloud-based applications

(2013) *2013 IEEE 7th International Conference on Intelligent Data Acquisition and Advanced Computing Systems*, Page No 188–192,

8. A. Agostino, K. Solberg Soilen, and B. Gerritsen
Cloud solution in Business Intelligence for SMEs? vendor and customer perspectives

(2013) *Journal of Intelligence Studies in Business*, Volume 3, Issue 3, Page No 5–28,

9. C. M. Olszak
Business intelligence in cloud

(2014) *Polish Journal of Management Studies*, Volume 10, Issue 2, Page No 115–125,

10. H. Al-Aqrabi, L. Liu, R. Hill, Z. Ding, and N. Antonopoulos
Business Intelligence Security on the Clouds: Challenges, Solutions and Future Directions

(2013) *2013 IEEE Seventh International Symposium on Service-Oriented System Engineering*, Page No 137–144,
DOI: <https://doi.org/10.1109/SOSE.2013.36>

11. G. M. Muriithi and J. E. Kotze
A conceptual framework for delivering cost effective business intelligence solutions as a service

(2013) *Proceedings of the South African Institute for Computer Scientists and Information Technologists Conference*, Page No 96-100,
DOI: <https://doi.org/10.1145/2513456.2513502>

12. H. Onen
The influence of temperature and light on seed germination of mugwort (*Artemisia vulgaris* L.)

(2006) *Journal of Plant Diseases and Protection*, Issue 20, Page No 393–399,

13. B. Wu and L. Qin
Design and implementation of Business-Driven BI platform based on cloud computing
(2011) IEEE International Conference on Cloud Computing and Intelligence Systems, Page No 118–122,

14. A. Juan-Verdejo, B. Surajbali, H. Baars, and H. G. Kemper
Moving business intelligence to cloud environments
(2014) 2014 IEEE Conference on Computer Communications Workshops, Page No 43–48,

15. M. Moyo and M. Loock
South African small and medium-sized enterprises` reluctance to adopt and use cloud-based business intelligence systems: A literature review
(2017) 2016 11th International Conference for Internet Technology and Secured Transactions, Page No 250–254,

16. R. Alsufyani and V. Chang
Risk analysis of business intelligence in cloud computing
(2015) 2015 IEEE 7th International Conference on Cloud Computing Technology and Science, Page No 558–563,
DOI: <https://doi.org/10.1109/CloudCom.2015.84>

17. O. Sangupamba Mwilu, I. Comyn-Wattiau, and N. Prat
Design science research contribution to business intelligence in the cloud - A systematic literature review
(2016) Future Generation Computer Systems, Volume 63, Page No 108–122,

18. J. Ereth and H. Baars
Cloud-Based Business Intelligence and Analytics Applications - Business Value and Feasibility
(2015) PACIS 2015 PROCEEDINGS,

19. P. Mac and C. Innecco
The Implications of Cloud Computing and Big data on the Roadmap towards Business Intelligence
(2018)

20. H. Al-Aqrabi, L. Liu, R. Hill, and N. Antonopoulos
Cloud BI: Future of business intelligence in the Cloud
(2015) Journal of Computer and System Sciences, Volume 81, Issue 1, Page No 85–96,

21. K. Rostek, M. WIŚNIEWSKI, and A. Kucharska
Cloud Business Intelligence for Smes Consortium
(2012) Foundations of Management, Volume 4, Issue 1, Page No 105–122,

22. M. B. Nirmala
A Survey on Cloud based Business Intelligence and Analytics
Page No 95– 99,

23. E. Indriasari
Adoption of Cloud Business Intelligence in Indonesia Financial Service Sector
Page No 1–11,

24. M. K. I. S. Department and F. of C. and I. Cairo

Cloud Business Intelligence Survey

(2014) Lecture Notes in Business Information Processing, Volume 183, Page No 307–317,

25. Marinela MIRCEA

Combining Business Intelligence with cloud computing to deliver agility in actual economy

(2010) The Bucharest University of Economic Studies, Volume 136, Issue 1, Page No 23–42,

26. J. F. M. Feldberg

Drivers and barriers of Cloud Business Intelligence: An investigation into the adoption factors for Small and Medium-sized Enterprises

VU University Amsterdam, Page No 1–26,

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