A Review of Cloud Computing Research on the Last Five Years

Abstract

Background

Cloud computing allows developers to share resource, computation problems in any place of the earth and it acts like a warehouse of services, software, information, programming capability, etc. Cloud computing brings a major benefit to users and organizations. Since the rule of cloud computing is in "pay as you used" services, it can cut down financial budgeting for the organization since they have no need to develop their own servers and only required to pay based on how much services they utilized [1]. The role of cloud computing became much apparent with the development of mobile devices such as Smartphone and tablet. Since mobile devices have lower computation and limited battery life, cloud computing became the solution to those condition for its reliability, and scalability [2].

In addition, cloud computing holds an important part in providing fast computation and respond to end users especially with the development of 5G that is going to be introduced in 2020. 5G required fast respond for end users that only allow 1ms latency. In order to be able to achieve that goal, cloud computing has prepared itself with the micro-cloud concept. In order to have fast computation, cloud computing purposed to use micro-cloud that being placed closer to the end users, the computation problem from the users will be handled first by micro-cloud, if micro-cloud able to finish those workloads it will send the result directly to end users but if the workloads is overflowed the computation process will be handled by the higher cloud in the hierarchy [3].

The research on cloud computing has been diverse and dynamics, several studies are concern about the security of the cloud computing [1], other studies have taken interest on the challenges of mobile cloud computing [2]. The aim of this survey paper is to give insight on the current research interest of cloud computing for the last five years and provided a surface knowledge on how the direction of the current researches.

This paper is organized as follows: In section 1 is the introduction of cloud computing. In section 2, it will discuss the research methods, online research libraries, and how the research being conducted. In section 3, it will discuss the finding from section 2 on the current trends of research topics about cloud computing. In section 4 will discuss the literature reviews of the papers, and section 5 contains the conclusion of this survey paper.

Methodology

Result and Statistical information of articles

Discussion

Conclusion

References

[1] N. Subramanian and A. Jeyaraj, “Recent security challenges in cloud computing ☆,” *Comput. Electr. Eng.*, vol. 71, no. July 2017, pp. 28–42, 2018.

[2] T. H. Noor, S. Zeadally, A. Alfazi, and Q. Z. Sheng, “Journal of Network and Computer Applications Mobile cloud computing : Challenges and future research directions,” *J. Netw. Comput. Appl.*, vol. 115, no. May, pp. 70–85, 2018.

[3] A. A. Ateya, A. Vybornova, R. Kirichek, and A. Koucheryavy, “Multilevel cloud-based Tactile Internet system,” in *2017 19th International Conference on Advanced Communication Technology (ICACT)*, 2017, pp. 105–110.

**Feedback:**

* Are you going to write about cloud computing in general or mobile cloud computing? The title states cloud computing, but the content talks about mobile cloud computing. Please decide.
* The topic is too broad. There are so many aspects in cloud computing, thus you would need more than 30 references, at least, to be able to discuss this topic even though it only covers the last 5 years. I suggest you to choose one or two aspects in cloud computing so that your article would be more focused.