Cloud computing – an IT concept was promoted in recent years. Although it isn’t considered an invention, cloud services have been growing and bringing benefits to users, therefore, the cloud technology has created a new revolution regarding provides information and service to organization.

Cloud computing can be considered as a comprehensive solution, it transforms information technology into a service. Cloud technology provides solutions to office storage with the remote database where resources are shared like the electric is distributed over the electricity network. It can be stated that cloud computing is a service since it is the distribution of IT resources as demand from user with a payment policy according to usage. Although there are free cloud storage given by enterprises like Google or Apple but they are limited. Before cloud technology, enterprise or individual’s storage is mainly physical infrastructure and offline which led to a major issue regarding space taken and maintenance. Now, user can access services like cloud computing to backup and retrieve data when needed. The useful of cloud database is the flexibility which make it easier to use online stored data. For example, website and application can easily access and retrieve data remotely which is very convenient as opposed to local storage in the past.

It is undisputable as regards to the benefits of cloud service provide. As mentioned, one of the advantages of cloud is that it is flexible and instantaneous. User’s cloud database can be accessed anywhere and whenever there’s an internet connection on the device. User can immediately retrieve resources from not only cloud technology but along with Internet of Things and machine learning. With cloud service, enterprises don’t need to support too many resources to do business in the highest level in the future. Instead, enterprise can pay as much as their growing for the service and storage since cloud computing make it possible to increase or decrease the storage when needed. However, it can only be done on the next period subscription, the storage size cannot be extended or reduced while user is on the current subscription.

For the last few years, business model has gradually shifted into the IT industry especially in cloud service. As businesses thrives with the support of cloud computing, the technology will continue to be a key role in the industry. It is clear seen in real life since the state of cloud computing is relatively promising in the 2020 and 2021 since the impact of Covid – 19. Companies and organizations tend to lean forward with multi-cloud and hybrid cloud solution to cope with the pandemic. This is due to the work-from-home policy for employees applied by the company. Not only the impact of the pandemic affects the work but result in studying from home as well. Therefore, during the quarantine period, which gives increase in the use of cloud service where the lecture or learning material is provided online. Not forget to mention, for enterprise and company, data and the workflow must be also obtained remotely. According to the International Data Corporation (IDC) report [1], the worldwide spending on cloud service in 2021 is around $700 billion which is expected to grow up to $1.3 billion in 2025. The largest market segment is Software as-a-Service which user doesn’t need much effort to manage the service since the software provided by service provider will be updated and fixed bugs for the user. The SaaS allows access and manage web or mobile apps which make communication easily between users. There is also an increase in Infrastructure as-a-Service (IaaS) and Platform as-a-Service (PaaS). The IaaS contains basic building structures for cloud technology in which it gives the access to network feature via virtual or physical component and the remote database. It brings out the most flexibility as much as the ability to control resources on the highest level. Aside from self manually operates, Platform as-a-Service benefits business and individual from being a self-operating infrastructure allowing user to concentrate in the work.

Cloud computing effect on the 4.0 industry is undisputable in which its ability is endless. Since enterprise no longer consider cloud service as a tool but it a leverage to boost business development towards Internet of Things (IoT) and Artificial Intelligence (AI) platform, as well as Hybrid/Multi-cloud strategy. The Hybrid and Multi cloud service purposes mainly to exchange data and the flow of application within multiple environments. The service improves the security interface and performance along with flexible capacity and trustworthy sever which make it valuable for achieving business goal. Another effect of cloud on business is AI technology where most of big tech companies tend to integrate AI into cloud computing to improve the service functionality as well as customer experience. The usage of AI will make it possible to mange and functions automatically, result in less maintenance and increase working efficiency. It is also mentionable that the IoT platform with cloud integrated which can be used on devices conveniently. The benefits of this are that it is managed automatically and notify issue to user in real-time. IoT also provides various industry-grade protocols make monitor process efficiently. Although the benefits of cloud computing is undeniable, it also may replace the human labor in the near future since less maintenance requirement. However, it is also an opportunity for newly worker since they will become expertise in the field to address business challenges.

The impact of cloud computing on our daily lives is significant in term of on the move accessibility. Indeed, it may not be noticeable by many, but our activity is related to cloud and people begin too familiar with it. This happens to me as whenever I open my social media and keep checking my acquaintance activity or what is trending which gradually become my morning routine without notice. Personally, I think this is due to the effect of cloud on individual is tremendous since the fear of not knowing the surroundings makes people constantly on the cloud. But the benefit of cloud provides to society is undisputable when specially I don’t need to worry about data loss or security. Additionally, regarding my education, I have a chance to explore more about cloud service like Microsoft 365, which gave me experience of doing documents on cloud. Another cloud service I was taught to use is GitHub. After knowing it, it has become part of my study every time I has a project to work on. GitHub also is used my school project when I was working on group assignment, my team mainly use GitHub repository to store our project. I think it affects positively since it is easy to keep track of workflow, the project can be view in real time to make editing or viewing and retrieving.

Reference

[1]"IDC Forecasts Worldwide", *IDC: The premier global market intelligence company*, 2021. [Online]. Available: <https://www.idc.com/getdoc.jsp?containerId=prUS48208321>. [Accessed: 16- Dec- 2021