**What is the state of the art of this new technology?**

SO first, what is cloud computing, cloud computing is a on-demand availability of computer system resources, especially for data storage and indirect active management by the owner or users. The current trend of Cloud Computing has been going great so far, as a result from an article: “**Companies of all sizes are increasing their investment in public cloud, with a greater number of enterprises using Azure this year to close the gap with leader AWS. Managing cloud costs is at the top of companies’ 2019 priority list for the third year in a row**” From more and more research I have done, there are 5 different type of people wanting to use Cloud computing. 1. We currently are deploying a private cloud 2. We currently have a hybrid Cloud 3. We currently leverage a multi-cloud ecosystem 4. We leverage specific cloud services (example: content management, app development) 5. We’re not currently leveraging any cloud solutions.

So, what are the companies that is leading cloud computing at the moment?

Microsoft Azure take 57% of the market and Amazon AWS takes about 43% and lastly Google Cloud Platform takes about 27% of the market. Even though Cloud computing seems pretty convenient and doesn’t cost about for a business, there are so some problem with the current state of Cloud computing. 1. Complexity and security 2. Challenge around data locality and isolation 3. Legacy infrastructure etc.

**What can be done now?**

Most Common way to use cloud computing are to STORE and having a Big Data Analytics within Business or other fields that reqiures data analysis to improve their own service.

* Data Storage

Cloud provides the possiblility of sotring your files/data and acceessing or reteiveing them from any web-enabled(Even Phone) interface, as long as the person got a smart device that can be connected with internet then he is able to access these files/data anywhere in the world that has interent connection. The web services are usually simple and easy to use for users to retrive data, the secruity of their server room at high to avoid all forms of data loss. But right now, organizations are only paying for cloud storage only, there are other service that realtes to cloud but the one they really need is storing them in a safe place and cloud is porpobally the best choice for origanization at the moment since it cheap and reliable.

* Data Analytics

Data Analytics is one of the aspects offered by cloud computing to tap into large quantities of both structured and unstructured data to gather the benefits of extracting business values.

* Backup

For all information uploaded to any cloud service, all information is saved and backed up automatically in the background, and user is guarantied again to not worry about the data loss problem since everything is backed up.

* Disaster recovery

This is another benefit of cloud computing, since the backup service are within the cloud. This allows a fast recovery from a mesh of different physical locations at a much lower cost because everything is online being stored, business can easily retrieve them whenever they need.

**What can Cloud Computing do in the future?**

In recent years, there has been a lot of talk going on around clouding computing and online cloud data storage for example like Microsoft Azure, Amazon Web service and Google cloud etc. There are also more relative newcomers to space as well such as Digital Ocean, Cloudways, etc. And what is the future of Cloud computing? According to Michael Corrado, A worldwide marketing manager that works for Hewlett Packard Enterprise. “The future of cloud computing will most likely represent a combination of cloud-based software products and on-premises compute to create a hybrid IT solution that balances the scalability and flexibility associated with cloud and the security and control of a private data centre.” From Michael’s point of view, I have the same feeling that all Cloud Computing services/product software will all be combined to perform the simplest way to analysis and retrieve data, therefore the future of Cloud Computing in my own opinion is in a direction that all Cloud products are going to simplest our data storage in many ways when time goes by.

**What technological or other developments made cloud possible?**

As we all know, the goal of cloud computing is to allows user to take benefits from all the service that Cloud provides such as, File Storage IaaS, SaaS etc. The main technology involved with Cloud Computing is Virtualization, Virtualization program/software separates a physical computing device into one or more virtual devices and each of them can be easily managed to perform all the computing tasks. Virtualization provides the agility required to speed up IT technical operations and reduces the cost by increasing infrastructure utilization.

**What is likely impact?**

The potential impact of Virtualization is mostly positive, and by using this technological method. Cloud computing can create a virtual platform of server operating system and storage device. Virtualizations also manage the workload by transforming the traditional computing tasks to make it more scalable, economical and efficient within our daily life. Since Virtualization can share all plications of multiple customer and companies, the potential impact I can think of is providing convenience overtime when Virtualization has been introduced, customer and users can access data anywhere that has the internet and safely store these information/data in a place they can trust. And all of the simplicity is caused because of Virtualization, without Virtualization, most of the services are unable to be achieved.

**What is likely to change?**

The possible changes could happen is there will be more and more people willing wanting to use Cloud computing, this does provide a fast rapidly growth within the Cloud computing industry but on the other side, the security of information being stored could be the new problem since the more data the company receives they are in charge of more responsibility to protect and backing up these data/info and security must level up or improved to an extent where data are 100% guaranteed being protected, therefore it is likely to change the level of security and the number of people in the use of Cloud computing.

**People will be most affected and how?**

It does affect a lot of people and a different group of people as well. Cloud computing is commonly used within businesses to help themselves to achieve better communication between their data and their employees, therefore they can use this data as soon as possible to provide analysis or their product to fix and improve the ability of this product can achieve.

For education, the main targets are students and teachers, Cloud computing allows the student to access data anywhere anytime to enrol in classes and participate in group activities but in the end, I think Cloud computing affects work in organizations the most because most of the business around the world is relying on something that can save data at a place that can be accessed and retrieved whenever they needed, plus the cost of cloud computing compare to setting up their server room and communication port is cheaper and more efficient. It reduces cost and takes less effort and the use of cloud computing isn’t hard at all, it simple and easy to get. Therefore, individual businesses and organization should be the people that will be most affected since they are relying on cloud computing for the daily running of the business.

**Will this create, replace or make redundant any current jobs or technologies?**

Certainly, will replace some people’s job, since fewer people are needing to store data in their server room or creating their ways to communicate data/info within a company or organization. Therefore, there will be a large number of people losing their job relates to these fields in terms of the network manager, server room security etc. will probably lose their job.

**How will this affect me?**

In my daily life, I use a lot of cloud service-related things, such as Gmail, Amazon Web, etc. Without these, it will affect my daily life to an extent where I can’t use these cloud service to assist my self to get things done like homework and communicating with teachers and students etc. Without Cloud computing my daily life will become a mess and with Cloud computing services this will help me to achieve my goals very easily with the convenience services that cloud has to provide.

**How will be different for me?**

A lot of my work is online related, and cloud service is essential to achieve my goals of completing the task that my teacher has given to us right, we must check every email being sent through and reply if needed, therefore communication by using emails could be affected is cloud service is done. Other things could potentially affect my daily but since it quarantines due to COVID-19, many of those are not considered into this question. Apart from that, there isn’t much related to cloud computing service apart from homework and school.

**How might this affect members of your family or your friends?**

Family: Both of parents does not use the advanced technical device very often, especially with my mother, all she is being done with a smart device is to watch tv shows and call people but it is opposite for my father since he is self-employed, there are a lot of his customers are there waiting for him to contact and I think this will affect my father’s work progress and creating difficulties.

Friends: There won’t be much going on between my friends and myself, we rarely use cloud service to connect ourselves. Therefore, it won’t affect me and friends at all due to lack of use in cloud service.