

# CLOUD COMPUTING

## KIND OF SERVICE PROVIDER

### Microsoft Azure

Because the sky is azure color and the "cloud" in cloud computing is in the sky, Microsoft used this name to name their public cloud platform. The goal of Windows Azure is to provide customers with a platform that uses cloud servers, storage and computing capabilities in the data centre to help various developments develop rapidly.

### Google Cloud

Google Cloud is a division of Google, also call Google Cloud Platform (GCP). Google Cloud consists of physical computers and hard drives and virtual machines. These resources are located in their data centres around the world such as in Australia, Asia, North America, Europe and South America.

### Oracle Cloud

It's headquartered in Redwood Beach, California, USA, and is known as the world's largest enterprise-level software company. Oracle is the first company to develop and deploy 100% Internet-based enterprise software across the entire product line.

### Alibaba Cloud

Alibaba Cloud has become China's first reliable cloud computing platform through years of actual production and operation inspections and the massive business impact of Double Eleven. Alibaba Cloud's products cover elastic computing, databases, cloud communications, networks, application services, and more.

### IBM Cloud

The cloud data service provided by IBM is based on an open-source hybrid approach to help data scientists and IT architects meet the needs of large amounts of data, thereby bringing benefits to the enterprise.



Microsoft Azure



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## Comparison

- Companies using Microsoft will be more suitable to choose Azure because Azure has tight integration with many applications. However, Azure lacks some service experience compared with other service providers.
- Google Cloud is more specialized in machine learning and big data analysis but they do not have so many data centres compared to AWS and Azure, so the number of functions and services provided is relatively small.
- IBM Cloud give customers a good experience in interoperability and flexibility but it lacks the ability to control data cause leak of privacy of customer.
- Alibaba Cloud is very friendly to China companies but there are not too many computer rooms overseas.
- Oracle Cloud has the highest level of ISO certification in terms of security but the price is more expensive and the operation is more complicated.

## Reflection

- The cloud computing mentioned at this stage is not just a kind of distributed computing, but the result of the mixed evolution and leap of computer technologies. Cloud computing is started from 2006. In these short 16 years, cloud computing has brought extremely rapid development to the Internet. In these developments, it saves time and money for mankind, but also brings better convenience to us.
- With the rapid development of cloud computing, more and more companies are developing cloud computing. This will give users more choices when using cloud computing. In this way, users can use cloud computing according to their personal needs.
- In my opinion, the future era will be the era of cloud computing. Cloud computing has a lot of scalabilities and needs, and it can give users a completely different experience in the future. For example, allow users to obtain an unlimited amount of resources through the network, with no time or space constraints.

# CLOUD COMPUTING

## TECHNOLOGY INFORMATION SYSTEM

### SUMMARY

This newsletter is about AWS service secure cloud platform and we can pay for the individual services we needs that we want to use. AWS services is working together and it is flexibility. AWS service has separate into many categories such as analytics, AR and VR, Application Integration, Robotics and so on. AWS service can help us to design a service depends on our requirements. AWS is very convenience for us because we can choose by our own and it covers in many course.

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### ISSUES DISCUSSED

The issue had been discussed was about cloud computing. Cloud computing is free except the users had use over the storage. Nowadays, for university students, they need to do a lot of assignments. Due to this pandemic, all the assignments are giving online and the users can share their ideas to the market or company to help them to complete it.

How the users sell their ideas? They can simply search via google, the different prices, types of server will list out for them. However, what is the suitable things for them? How the users know how many servers they need? Cloud computing can help the users to solve the problems. Cloud computing is secure and always connected.

Besides, if the user is using the hardware, they need to consider about their capital for the apartment which is space, and staff who take care the devices. If the user need to migrate, the user need to pay a lot of the delivery fees and the devices are difficult to move it. It is too expensive for a business as the business is open to make money.

### REFLECTION

- AWS is a platform that provides free services up to certain limits. Since AWS provides free services to us, it can give an opportunity to us to try some difficult business and realize our idea easily. These services can help organizations grow rapidly, reduce IT costs, expand, and also accelerates the technological process.
- Many things have changed as a result of cloud computing, including education, social impact, health, online shopping, and personal storage. We can definitely improve our living standards and technological development if we make good use of cloud computing.
- People no longer need to purchase an expensive and high-performance computer thanks to the development of cloud computing. This is because the computing requirements for cloud computing are very low, and you can even use your phone to access cloud computing. Furthermore, the majority of cloud computing services are pay-as-you-go. It can be said cloud computing is low risk, save money and time and also improve employment opportunities.

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# AUGMENTED REALITY

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## SUMMARY

This newsletter is about OZEL that is including Augmented Reality (AR). Augmented Reality has been planned for our future because many companies have begun to use AR. The future of AR included various types of fields such as education, design for furniture, clothing & fashion, and so on. Those who are learning AR must have complex problem solving, critical thinking, creativity and many other skills for future jobs. After that, the common positions in AR work has AR/VR content developer, content strategist, and also user experience designer. Augmented reality will become more popular in the world within a few years and hope it can bring us to achieve better goals in technology.

## ISSUES DISCUSSED

The issue had been discussed is about Snapchat and Instagram will be the biggest user. For instance, most of the Instagram users love to record their lifestyle via stories. To let the stories more attractive, the users will add some emotes or stickers which are augmented reality such as when they selfie, it will automatically appear a pair of fox ears on their heads or have some make up effects that can let them look more fair and beauty.

Besides, there are some building have design and decorate which augmented reality. For example, a giant 3D cat has taken over one of Tokyo's biggest billboards. It look playfully and real. It display the cat walking around in the screen. It also have different actions in the different time. For instance, the cat will wake up in the morning, meow at passerby when afternoon and lie down as well as fall asleep at night.

## REFLECTION

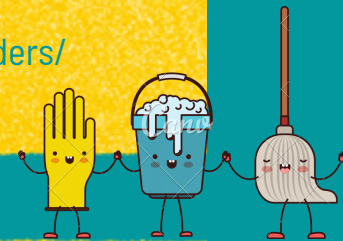
- Because of increased interconnection and smart automation, Industry 4.0 (4IR) signifies rapid change in technology, industries, and societal patterns and processes in the twenty-first century. This has an indirect impact on our lives and create various type of possible to us for our future. 4IR also demonstrates that human civilization is still evolving, even faster and faster and raising our living standards.
- Augmented Reality (AR) allows us to experience many things that are impossible to experience in real life. For example, we can personally enter the world of games to experience all kinds of fun things. This can help us to reduce our stress especially in this world of many troubles. Development of AR makes us enjoy life and the chance of suffering from mental illness will be reduced.
- In my opinion, the use of AR in education can make students learn more clearly and can increase students' interest in learning. For example, students can see the more detailed structure in certain things such as rocket, heart and etc. However, AR's equipment is currently very expensive, and the school is finding it difficult to bear such a high cost. In the future, I hope that AR can be popularized to improve the quality of learning.



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