

# CLOUD COMPUTING SERVICE PROVIDER

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There are several companies other than Amazon Web Services (AWS) that provides cloud computing service such as Microsoft Azure , IBM cloud , Google Cloud , Oracle Cloud and Alibaba Cloud .

**Microsoft azure** , previously known as Windows Azure is Microsoft's public cloud computing platform. It proposes abundant of services in various categories as well as compute , analytics , networking , security and storage. Users can select and choose from these services to develop new applications , or run existing application in the public cloud. **IBM cloud** merges platform as a service (PaaS) with infrastructure as a service (IaaS) to allow broad experience. It is specifically developed as a set of computing services for businesses. **Google cloud** platform is a suite of public cloud computing services provided by Google. It contains a range of hosted services for storage , compute and application development that run on Google hardware. **Oracle cloud** platform is the cloud computing offered by Oracle corporation . Oracle cloud is an enterprise cloud for business that offers self-service business application carried out on a broad development and deployment platform. **Alibaba Cloud** is a subsidiary of Alibaba Group and headquartered in Singapore. Alibaba group provides cloud computing assistance to online business and Alibaba's own e-commerce ecosystem.



## REFLECTION

Cloud computing services has been a blessing for today's world economy development especially for small businesses as it provides a very low-cost, no-commitment way for enterprises to quickly get new services and capabilities to market . Also , it helps big organization to run and expand their business more smoothly . Besides , cloud computing service provider really emphasize the security and privacy of the user 's data and information for better experience .Therefore, we must take this opportunity to make the best use of the services that are already provided and choose the right cloud service provider that is compatible with our current location.

## Comparison

Microsoft support is slightly high-cost and has a lower ratio of availability zones than other cloud computing service providers .Besides , Google Cloud offerings have not yet reached the level of enterprise maturity that Microsoft Azure and other cloud computing company provides ,and part of them are not yet completely packaged as the ones offered by Google Cloud's competitors .Other than that , in the cloud service providers market , IBM is considered a slowpoke , as in some cases IBM does not support the newest model . Also , as alibaba is more focused in South Asia ,it has slower response time in certain location like USA .Even so , Alibaba cloud has better CPU and memory utilization than other cloud service provider .



Google Cloud

Alibaba Cloud



## SUMMARY

Industry 4.0 is the digital transformation of manufacturing/production and related industries and value creation processes. There are 9 digital industrial technologies that form the basis of industrial 4.0, one of which is augmented reality (AR). Augmented reality is an enhanced version of the physical world that is achieved through the use of digital visual elements, sound or other sensory stimuli delivered via technology. It is a growing trend among companies involved in mobile computing and business application in particular. AR has now penetrated into our daily life, and many industries are scrambling to make use of all the benefits. In the future, all our ordinary task will become obsolete because of AR. When AR improves task efficiency or the quality of the output of an experience for the user, the future will belong to AR. By then, although we have a more convenience life but also we have other challenges bring by AR.

## REFERENCES

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## REFLECTION

Augmented reality (AR), it is an evolving technology which can enrich sensory perception through information that the senses cannot perceive. Cleverly interwoven with the physical world, giving people a sense of immersion in the real environment. Augmented reality help many industries to reduce costs, save time, improve security, improve teamwork and even improve interesting. Aside from the benefits to industry, there is no doubt that people will have a more convenient life and improve the quality of lifestyle. For example, people will have a great and more real experience while playing games using AR technology.

# Current Trends of Augmented Reality In Industry

## THE FUTURE OF AUGMENTED REALITY

The World Economics Forum 2015 did prediction by 2025 such as 10% of people will be wearing cloths connected to the internet, 10% of reading glasses will be internet connected, the first automobile entirely produced with a 3D printer, 90% of world's population will own a smart phone, 10% of all vehicles on the roads will be driverless, the first organ transplant from an organ made on a 3D printer, etc. According to these prediction by 2025, the future of augmented reality is bright as AR's value in the market climbing up to \$25 billion by 2025. This growth will only continue for years to come, determined by investments from the business domain and spheres in the following chart:



Furthermore, according to Mobile Augmented Reality by 2022, snapchat and instagram will be the biggest user as 3.5 billion user are predicted. On the report of Projected revenue generated by AR ads by 2022, it will have \$15 billion revenue as 9 or 10 brands are plan to use AR in their campaigns.

## CHALLENGE BRING BY AUGMENTED REALITY

With the development of augmented reality, we may face the challenge of unemployment while enjoying a more convenient life. Therefore, there are 10 skills that everyone need embrace for getting future jobs in this era of industrial 4.0 which is complex problem solving, critical thinking, creativity, people management, coordinating with others, emotional intelligence, judgement and decision making, service orientation, negotiation and cognitive flexibility. Besides, there are some keys areas where human beat machines that are key to future job creation. The first key is creative endeavours which everything from scientific discovery to creative writing and entrepreneurship. Then, social interaction which is second key is helping human to beat machines as robots just don't have the kind of emotional intelligence that human do. Lastly, the third key is physical dexterity and mobility. Millennia of hiking mountains, swimming lakes and dancing practice, give humans extraordinary agility and physical dexterity. On the other hand, there are also 5 things to consider when choosing career. We can study data science and/or get a job in data. Next, choosing a job that robots still can't do well and keep in touch with the job market to get an insight of which jobs are in demand and its average salary. We also can be data savvy as learn how to use data to make decisions and solve problems, and we can get familiar with artificial intelligence.



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## AUGMENTED REALITY FUTURE USES

With the development of augmented reality in swing, it will affect some of the industries we rely on every day in future.

Back in the old days when we were in school, we had many textbooks, looseleaf paper, poster and many other printed materials but all of these will be interactive, digital and available at any time due to AR technology. This will enable more people to receive education and provide a higher level of student interaction since lessons can be conducted in a game format.

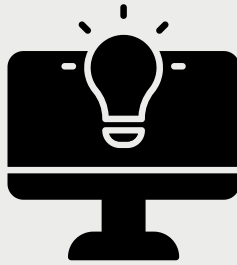
Besides, AR also play 3 big roles in healthcare. The first role is consumer education. AR can help patients understand the benefits and risks of certain medications and procedures by providing visual demonstrations or consumer scanning functionalities. The second role is assisting doctors by creating serious game simulations of how a certain procedure should be done. Lastly, AR can help medication sales using AR to demonstrate the positive effect of the drug to the doctors.

On the other hand, AR is also helping people to make a smart decision without even going inside the store as many brands will include an AR functionality inside their mobile that will allow you to point your camera at any item and not only obtain all necessary information about it, but you will also see AR images of models wearing the clothes.

To develop an AR project, there is impossible rely on one's efforts but is a team. A team include AR content developer, AR content strategist, AR user experience designer, designer, animator or sound artist specializing in AR, AR community manager, AR project manager.



# Industry Talk 1



Presented by:  
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## What is cloud computing?

Cloud computing is a computer utility that delivers over the internet and will give computer resources. Note that when you use, you need to pay and when you don't use, you don't need to pay.

In cloud computing, instead of thinking of things as hardware, we should actually think them as software. This is because 80% of security issues are staff problems. If hardware it will require space, staff, physical security, planning, and capital expenditure. Also, we must have sufficient and enough money before we start something. If software, it is much more flexible, quick, easy, and also cost-effective. For instance, we can use the Malaysia server and also use it in different countries. There are few cloud service models such as Infrastructure as a service (IaaS) which requires more control and also we need to pay for using it, Platform as a service (PaaS), and Software as a service (SaaS) where we can access it with any browser to finish up our work on time like Powerpoint, Excel, and Microsoft Word. AWS also created few similarities with IT, for example administrator is changed to IAM, switch is changed to Amazon VPC whereas RDBMS is changed to be Amazon RDS.

Categories of AWS is divided into few such as analytics, AR and VR, mobile and satellite. We choose a service from AWS based on our needs, business goals and technology requirements. Three ways of interaction in AWS is AWS Management Console, Command Line Interface (AWS CLI) and Software Development Kits (SDKs) like Java and Python. Plus, Total Cost of Ownership (TCO) is also offered in AWS which it can financially help to identify direct & indirect cost of a system by taking service cost, storage cost, network cost and IT labor cost in consideration. For instance, the benefit of TCO can be shown by a company which save up to almost 96% a year by changing their Infrastructure to AWS. Moreover, AWS also support their customer or users if something goes wrong in their server. Supports are also divided into four which is basic, developer, business and enterprise support. The support given are also based on the time and urgency that the owner needed, you will need to pay more if you wanted the problem to be solved fast.



## What is AWS?

AWS is also known as Amazon Web Service. It is a service cloud platform that offers a broad set of global cloud-based products.

## Reflection

From this talk, I learned that in the generation and the world that we are currently living in which it will be hard for a person to continue their basics of life without having knowledge about IT. This is because even the things surrounding us are also applied IT which for instance is home automation. Cloud computing can also be in our daily life activities such as banking, email, media streaming, and e-commerce. Cloud computing offers application and servers that allows us to use it at anywhere and anytime we wish to. Plus, it is much easier when AWS is also known as Amazon Web Service provides a lot of different services in their application and one of them is creating our own server in just a few clicks. I know learned that we can actually do a lot of things online without wasting time and energy to do it manually. This is what the use of IT is for.

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