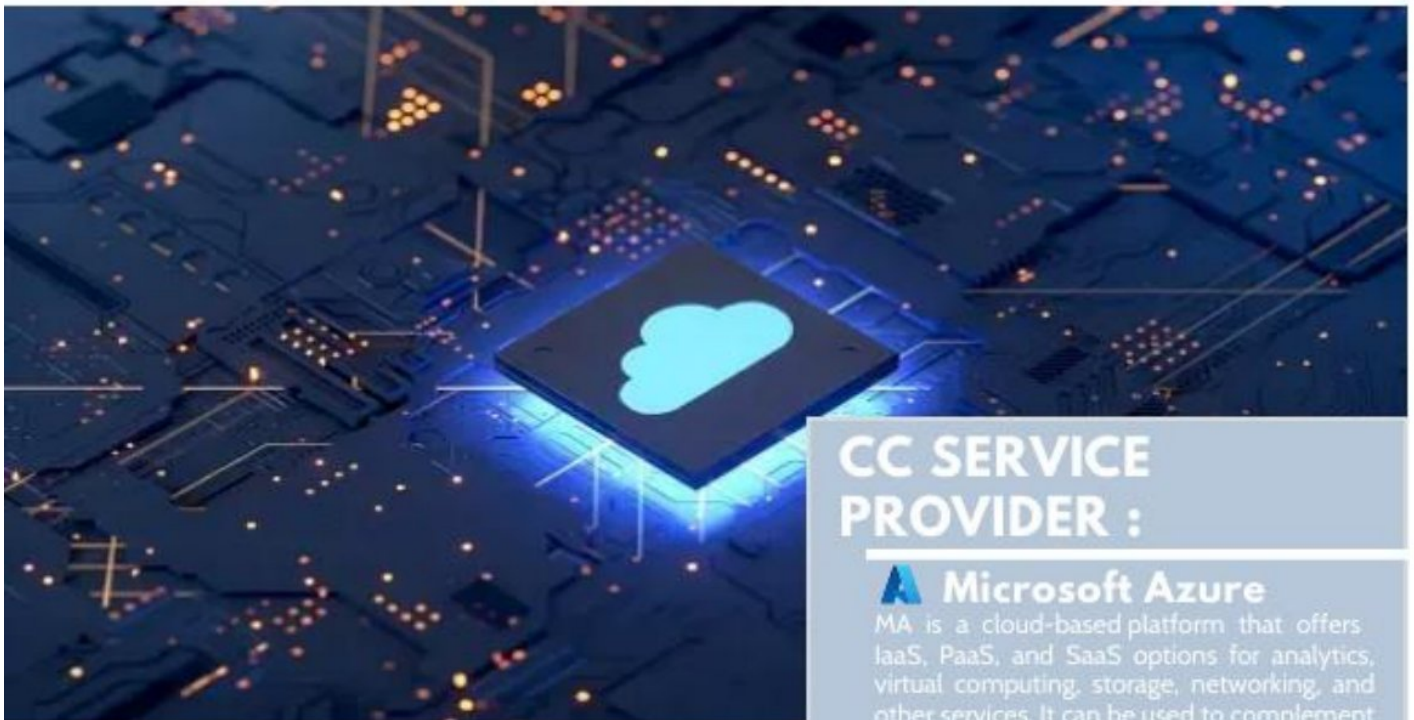


SECP1513-08 CLOUD COMPUTING

November 27th 2021



GROUP 3
START YOUR CLOUD JOURNEY



CC SERVICE PROVIDER :

Microsoft Azure

MA is a cloud-based platform that offers IaaS, PaaS, and SaaS options for analytics, virtual computing, storage, networking, and other services. It can be used to complement or substitute on-premise servers.

Google Cloud

GC is a collection of Google's public cloud computing services. The platform contains a number of Google-hosted services for computation, storage, and app development.

Alibaba Cloud

AC is an Alibaba Group subsidiary that specialises in cloud computing. Alibaba Cloud offers online enterprises and Alibaba's own e-commerce ecosystem cloud computing services.






Oracle Cloud

OC is a cloud computing service by Oracle Corporation, which features servers, storage, networking, applications, and services delivered over a worldwide network of Oracle Corporation managed data centres. These services can be offered on-demand over the Internet.

IBM Cloud

IBM Cloud (previously known as Bluemix) is a collection of cloud services for businesses supplied by IBM. To design, execute, deploy, and manage cloud applications, the company offers a variety of programming languages and services, along with integrated DevOps.

PROS & CONS

	Pros	Cons
	<ul style="list-style-type: none"> ✓ A robust management platform ✓ Highly versatile and adaptable 	<ul style="list-style-type: none"> ✗ lousy service. ✗ Pricing and contract flexibility can be challenging
	<ul style="list-style-type: none"> ✓ The user interface is fantastic ✓ Provides alternatives choices for low-carbon infrastructure 	<ul style="list-style-type: none"> ✗ Migrations to and from Google Cloud can be challenging at times. ✗ Inferior customer service and paperwork
	<ul style="list-style-type: none"> ✓ Users give high ratings for reliability ✓ May be less pricey than other providers 	<ul style="list-style-type: none"> ✗ Some services and apps are lacks of flexibility ✗ Initial configuration process might be challenging and complex
	<ul style="list-style-type: none"> ✓ Large focus on hybrid architectures. ✓ Free training and certification programmes are available. 	<ul style="list-style-type: none"> ✗ Attention is primarily on huge corporations and government entities. ✗ It can be quite costly.
	<ul style="list-style-type: none"> ✓ A large number of partners. ✓ A significant number of APIs are available. 	<ul style="list-style-type: none"> ✗ Reports of compatibility and stability issues. ✗ Not user friendly

REFLECTION

The most important things about cloud computing is the fact that it is the most cost savings method in storing data. Users also don't need to worry about the security as it is guaranteed by the cloud provider. Last but not least, cloud computing is easy to sustain and maintain without compromising quality.

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4. MUHAMMAD FAHMI BIN ROSLEE (A21EC0285)
5. AARON TAN (A21EC0152)

INDUSTRIAL TALKS NEWS

UNIVERSITI TEKNOLOGI MALAYSIA
SCHOOL OF COMPUTING



Amazon Web Service Cloud Computing

BY DR. QUSAY AL MAATOUK

AFTER HEARING THE TALK DELIVERED BY DR. QUSAY ON AWS CLOUD COMPUTING, HE BRIEFLY EXPLAINED ABOUT CLOUD CONCEPT WHICH CLOUDS COMPUTING IS A DEMAND DELIVERY OF COMPUTING POWER, DATABASE, STORAGE, APPLICATIONS, AND OTHER IT RESOURCES VIA THE INTERNET WITH PAY AS YOU GO. FURTHERMORE, DR. QUSAY ALSO DESCRIBES INFRASTRUCTURE LIKE HARDWARE AND SOFTWARE IN CLOUD COMPUTING. ON THE OTHER HAND, THERE ARE THREE CLOUD COMPUTING DEPLOYMENT MODELS SUCH AS CLOUD, HYBRIDS, AND ON-PREMISES. MOVING ON TO SECTION 2, DR. QUSAY SHOWS THE ADVANTAGES OF USING CLOUD COMPUTING FOR EXAMPLE HIGH SPEED AND AGILITY AND REQUIRING LESS COST. IN CLOUD COMPUTING, THERE IS A GROUP OF WEB SERVICES THAT MAKES ITSELF AVAILABLE OVER THE INTERNET AND USES A STANDARDIZED FORMAT FOR REQUEST AND RESPONSE OF AN APPLICATION INTERFACE INTERACTION. MOREOVER, AMAZON WEB SERVICE (AWS) IS A SECURE PLATFORM THAT OFFERS A BROAD SET OF GLOBAL CLOUD-BASED PRODUCTS AND ONLY PAYS WHEN YOU USE THEM. DR. QUSAY ALSO MENTIONED THERE ARE 2 GOALS WHEN CHOOSING CLOUD COMPUTING WHICH ARE SAVING MONEY AND HAVING MORE EFFICIENCY. NEXT, DR. QUSAY ALSO EXPLAINED THE TOTAL COST OF OWNERSHIP (TCO) WHICH HELP US TO IDENTIFY THE DIRECT AND INDIRECT COSTS OF A SYSTEM. IT CAN BUDGET AND BUILD THE BUSINESS CASE AND SAVE MONEY UP TO 90 PERCENT.



Issues Discussed

WITHOUT CLOUD COMPUTING, BUSINESSES WOULD BE IN DEEPER TROUBLE AND SOME ISSUES MIGHT OCCUR. WHEN THERE ARE NO DATA BACKUPS AND RECOVERY, OUR DATA MIGHT BE STOLEN FROM CYBERATTACKS OR LOSSES DUE TO NATURAL DISASTERS. FURTHERMORE, IT IS MIGHT GIVE A HIGH COST TO THE BUSINESS TO SPEND FOR THE PURCHASE OF INVENTORY SUCH AS INFRASTRUCTURE AND HARD DISK. LASTLY, IT IS NOT FLEXIBLE WHICH REQUIRES US TO ACCESS ONLY IN A SPECIFIC PLACE AND MORE TIME NEEDED TO COMPLETE A TASK.

Reflection From The Talk

FROM THE TALK, WE HAVE LEARNED CLOUD COMPUTING IS VITAL NOWADAYS AS IT BRINGS BETTER BUSINESS EFFICIENCY, BETTER SERVICE TO CUSTOMERS, AND HE OBVIOUS INCREASE IN THEIR PROFITS. HOSTING ON THE 'CLOUD' IS MORE ENVIRONMENTALLY FRIENDLY AND RESULTS IN A SMALLER CARBON FOOTPRINT. USING THE 'CLOUD' HELPS ORGANIZATIONS TO CUT DOWN ON HARDWARE, REDUCES PAPER WASTE, AND SINCE IT ALLOWS ACCESSIBILITY FROM ANY LOCATION WITH AN INTERNET CONNECTION, IT REDUCES EMISSIONS RELATED TO TRAVEL AND COMMUTER MOVEMENT.

“With the cloud, individuals and small businesses can snap their fingers and instantly set up enterprise-class services.” –Roy Stephan, 2011

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MUHAMMAD THORIQ BIN KAHAIRI AZIEC0096

WAN MUHAMMAD AIMAN BIN WAN MUHAMAD FAISAL AZIEC0237

AUGMENTED REALITY

27th November 2021

Ozel's Augmented Reality

On the 18th of November, a talk was delivered by Dr. Ruzimi bin Mohamed, the founder of OZEL SDN. BHD. According to Dr. Ruzimi, Augmented Reality or AR for short is one of the 9 Digital Industrial Technologies or also known as the nine pillars. Next, he explained that the largest revenue of AR by industry by 2025 is expected to be 11.6 billion usd for video games which is the highest compared to education with 7 million usd which is the lowest. He mentioned the application of sign language in AR using Oculus Rift and is currently in the process of implementing learning of sign language through oculus in Roblox. Instagram and Snapchat applies AR through the addition of AR filters and both have the biggest amount of users tallying over 3.5 billion. The future use cases of AR in education was mentioned to give realistic simulation for students while on the other hand, clothing and fashion will apply AR to create a virtual dressing room. Next he explains the 10 skills for future jobs and the three most important would be complex problem solving, critical thinking and creativity. Dr. Ruzimi also mentioned the three areas where human beat machines which were, creative endeavors, social interaction and physical dexterity and mobility. However, he further added that social interaction may be removed from the list in the future due to Metaverse using AR in social interactions.

Issues Related to AR

During the talk, Dr. Ruzimi explained that one of the issues of AR in Malaysia would be the internet connection. This is because the AR 3d models require a lot of data to load. This is also the reason why AR cannot be implemented in cloud computing. Another issue would be the cost to create AR technology is high. The hardware and software to create AR is one thing, however creating the 3D models for AR is another. The higher the quality, the higher the cost. It is also difficult to maintain a good performance in AR and one such issue would be the poor occlusion.

Reflection On The Talk

With the fast advancement of AR technology, we will see an improvement of our overall life in the future within aspect whether it be education, shopping, medical services or playing video games. The evolution of AR will allow us to do virtually almost anything online which will help us save time and increase our efficiency. For example, it can help medical students practice performing surgical operation with minimal risk. It can also help us estimate the size of our furniture so it can fit perfectly in our home. Thus, our country must be prepared to adapt the changes that will come with the technology to benefit the masses.

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CLOUD COMPUTING SERVICE PROVIDER

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