INDUSTRIAL TALK 4
15 NOVEMBER 2021

CLOUD COMPUTING

TOP 5 CLOUD SERVICE PROVIDERS IN 2021

1. Google Cloud

Google Cloud is a collection of Google's public platform comprises a variety of Google hosted services for computation,storage and application development. Uses the same infrastructure and security services as Google to safeguard your data,apps,infrastructure and protectsa customers against fraudulemt behaviour and spam

2. IBM Cloud

IBM Cloud previously known as Bluemix is a clooection of cloud computing services for businesses supplied by IBM. It's offers PaaS, SaaS and laas sevices via public ,private and hybrid cloud architectures similar to the other service prroviders .Organizations use IBM Cloud to install and access virtualiized IT resources via the internet.

3. Microsoft Azure

Originally known as Windows Azure , is a public cloud computing platform developed by Microsoft.It offers a variety of cloud computing,analytics,networking services and storage. The Azure platform is designed to assist businesses and organisations in overcoming obtacles and achieving their obljectives.

4. Alibaba Cloud

Alibaba Cloud is a Singapore based company that was launched in 2009.It was originally created to support Alibaba's own e-commerce ecosystem but it is available to the general public.It offers various products and services in various categories inclluding Elastic Computing and Networking

5. Oracle

Oracle Cloud is the company's cloud soluton .It provides infrastructure as a Service(IaaS),Platform.as a Service (PaaS) ,Software as a Service(SaaS) and Data as a Service(DaaS)..The main fuction of Oracle Cloud is to allow developers to build ,run and expand apps without having worry about infrastructure

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Google Cloud Platform Amazon Web Services Microsoft Azure Alibaba Cloud

TECHNICAL SUPPORT AND TRAINING

Microsoft Azure is a user friendly and one of the easier clouds to get set up compared to Oracle cloud.However, Oracle does not appear their customer service team as responsive as many would like.Alibaba cloud's documentation library and blog offer forums where other users can work together to solve problems and improving the speed to resolution.

BREADTH OF FEATURES

Google's cloud platform places a strong emphasis on machine learning and artificial intelligence.It doesn't support third -party integrations but overall it's a pretty feature-rich platform. While Microsoft has invested heavily in it's ML services, offering several cognitive computing features like text analytics and a bot service for Azure. However, Alibaba Cloud has the most features and services available for customers in China and other parts of the Asia Pacific region.

STORAGE AND BACKUPS

Alibaba Cloud offers four different storage options such as object storage,file storage NAS, elastic block storage(EBS) and storage capacity units(SCU).There is a hybrid backup recovery service that protects data stored in it.While Oracle Cloud shines in database management ,allowing organizations to manage the utilization and automating necessary upgrades and updates. However, Microsoft Azure offers a large data lake,perfect for storing big appplications as well as options for unstructured data.

COMPARISION AMONG THE CLOUD COMPUTING PROVIDERS

"Reasons Why IBM Cloud Is Not Popular As Google Cloud Or Microsoft "

1.Less marketing for IBM Cloud
2.IBM play on high league
3.IBM Cloud has joined the party late

CONCLUSION

According to Gartner Magic Quadrant for Cloud Infrastructure as a Service ,Microsoft Azure leads all the way as a leader in its ability to excecute ,but Google cloud leads as a visionary.Oracle is the third in the race followed by Alibaba and IBM.

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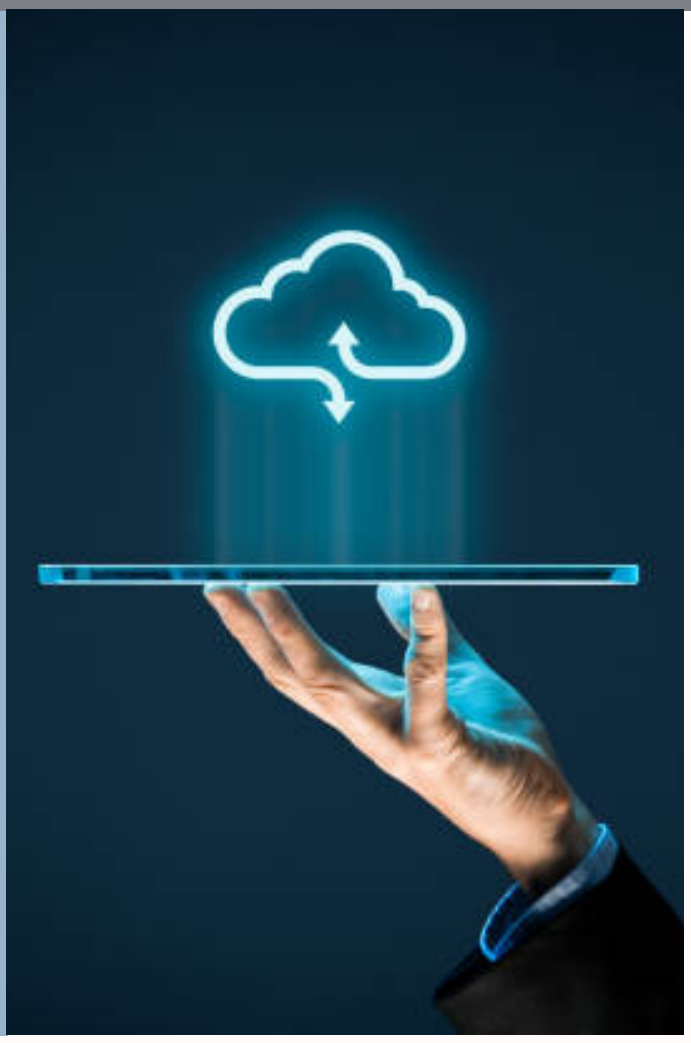
INDUSTRIAL TALK 3

AMAZON WEB SERVICES (CLOUD COMPUTING)

SUMMARY

The lecturers of Technology and Information System (TIS) have held the third Industrial Talk on cloud computing, which is developing in Malaysia, on November 15, 2021. This session intends to provide in-depth knowledge of cloud computing, namely Amazon Web Services (AWS). Dr. Qusay Al-Maatouk, a lecturer at Asia Pacific University (APU), gave this discussion, which lasted from 3:00 pm until 4:15 pm.



CONTENT

Cloud computing refers to the on-demand evolution of digital system resources, particularly data storage and computing power, without the user's direct active management. Large clouds frequently have functions distributed across multiple locations, each of which is a data centre. Cloud computing is a software as opposed to the traditional computer architecture in which the infrastructure is hardware. It is more adaptable, can be changed more quickly, conveniently, and affordably than hardware systems, and can help reduce undifferentiated heavily loaded workloads. There are three major cloud computing models. Each model is a representation of a separate component of the cloud computing stack. The models are infrastructure as a service (IaaS), platform as a service (PaaS), and software as a service (SaaS). The cloud computing deployment models are cloud, hybrid, and also on-premises (private cloud). Cloud computing offers various benefits, including the opportunity to exchange capital expenditure for variable expense, considerable economies of scale, capacity flexibility, greater speed and agility, long-term investment in managing and maintaining data centres, and the potential to become international immediately. A web service is any software program that makes itself available through the internet and employs a defined structure for the request and response of an application programming interface (API) interaction, such as Extensible Markup Language (XML) or JavaScript Object Notation (JSON).

Amazon Web Services (AWS) is a safe cloud platform that provides a diverse range of worldwide cloud-based goods. AWS gives customers versatility and on-demand exposure to computing, storage, network, database, and other IT resources and management tools. Depending on your company's goals and data requirements, you may choose from a variety of AWS service types. The AWS cloud offers various benefits over traditional infrastructure and is more advanced. There are no upfront expenses, faster speed to market and agility, the capacity to scale upwards, and self-service architecture among them. Upgrading your infrastructure to AWS might save you up to 96 percent per year if you're all-in-cloud. Total Cost of Ownership (TCO) is a financial assessment used to determine a system's direct and indirect expenses. TCO is used to assess the costs of running a complete infrastructure environment or a single task on-premises versus on AWS, as well as to finance for and establish a strategic plan for shifting to the cloud. AWS includes a pricing calculator that can estimate monthly expenses, and find the instance kinds with contract conditions that best fit your requirements, identify your budget as well as construct it or even name the service groups. AWS Support provides four different types of support plans which are basic support, developer support, business support, and enterprise support. They will assist you in resolving the issue based on the support plans you purchased and the severity of your situation. Compute services, Security, Identity, and Compliance services, Storage services, Database services, Networking and Content Delivery services, Management and Governance services, and AWS Cost Management Services are all covered in this course.

REFLECTION

This session teaches us what cloud computing, namely Amazon Web Services (AWS), entails, and we understand that the cloud computing reality has expanded swiftly in this world. Aside from that, we may conclude from this discussion that innovation is critical to our success since it increases human productivity. Cloud computing has a significant influence on humans since it has a lot of benefits that we need in this era which are cost-saving because people do not need to worry about hardware maintenance, it also has flexibility compared to the old version, and many more.

As a result of industrial revolutions, all new innovations and technological breakthroughs have benefitted the globe, and all of this necessitates long-term innovation.

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AUGMENTED REALITY

CURRENT TRENDS OF AUGMENTED REALITY IN INDUSTRY

SUMMARY

On 18 November of 2021, the lectures of Technology and Information System (TIS) was organized Fourth Industrial Talk on augmented reality which is growing in Malaysia. This talk aims to give deep learning about forth industry especially in augmented reality. This talk was given by Dr. Ruzimi Mohamed who is founder of Ozel Company and this talk start from 9.00 a.m until 10.30 a.m.

CONTENT

Augmented reality is one of 9 digital industrial technologies which is growing in Malaysia and around the world. Augmented reality is a digital technology that allows us to place digital assets over the real world. Augmented reality has monopolized many sectors especially in video games, healthcare and engineering which gives a very decent profit to the country. There are several forecasts that will be achieved in 2025 such as that will be 10% of people wearing cloths that connected to the internet. For the example, at China the beggar will wear a cloths that have QR code then the people can give alms through scan scan the QR code so it will be cashless. This is especially beneficial during a Covid-19 pandemic because it can help us reduce contact from each other. Augmented reality has been widely used especially in mobile user such as Snapchat and Instagram that have 3.5 billion user. For the future, there are 10 use cases in augmented reality such as education augmented reality, clothing and fashion reality simulates, the creation of the Metaverse and automotive industry. Augmented reality have three type which are marked based, projection based and superimposition based. Augmented reality has venturing into the field of work such AR content developer and AR content strategist. To keep us competitive with other graduate for the future job in IR4.0, we need have all this 10 skills which are complex problem solving, critical thinking, creativity, people management, coordinating with people, emotional intelligence, negotiation, service orientation and cognitive flexibility.

REFLECTION

From this talk, we learn what is mean augmented reality actually and we realize that augmented reality actually has grown rapidly without we realize it. Besides that, from this talk we know that innovation very important to us because it help to growth the human productivity. Augmented reality really give big impact to people because it helps facilitate human work. To achieve the technology that we want to create and in accordance with human needs, we need to keep do innovation until according to the desired specifications.

All new inventions and technological developments have benefited the world as a result of industrial revolutions and all of this need innovation that take take a long time.

MENTED REALITY APPS

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