Cloud Computing Service Providers

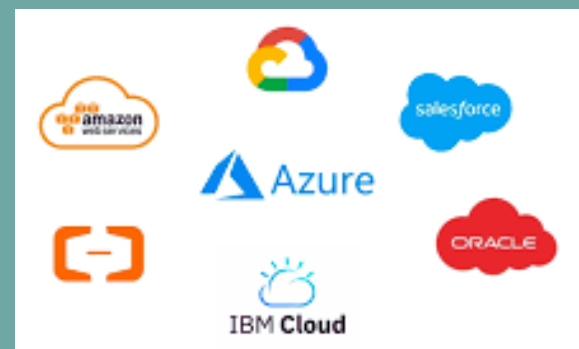### Examples That Keep the World at Our Fingertips

Introduction

Many companies are now offering cloud services and improving their performance from time to time. Previously, data was stored on hard drives, which were not reliable or secure because the drive could be accessed by anyone. Today, cloud computing services have gradually replaced search hard drive technology, bringing a new concept known as cloud technology, in which data is stored in the cloud. There are many companies that offer Cloud computing services, and they are all very stable and reliable. Everything is shifting to the cloud, whether it's infrastructure, software, applications, services, products, or even an operating system. As a result, billions of dollars are being invested in cloud migration.

Cloud Computing Service Providers

There are a handful of well-known, major public cloud companies—such as Alibaba Cloud , Adobe Cloud, Google Cloud Platform (GCP), IBM Cloud and Microsoft Azure—but there are also hundreds of other cloud computing providers all over the world. The first one is Microsoft Azure. It is a cloud computing service which is used for building, testing, deploying and managing the application. This process is done in a global network of the Microsoft-managed data center. It is private as well as a public cloud platform. Next is Google cloud platform. It is one of the leading Cloud Computing services which are offered by Google and it runs on the same infrastructure that Google uses for its end-user products. There are various services offered by Google Cloud such as data analysis, machine learning, and data storage. Next one is IBM cloud, they offers services such as platform as a service and infrastructure as a service. This cloud organization can deploy and access its resources such as storage networking and compute power with the help of the internet. A customer using IBM cloud can easily find growth opportunities, generating new revenue schemes and improving the operational efficiency. Another example is Adobe creative cloud that provides the best experience of apps services design photography and web. The Adobe cloud services provide tutorials and templates in which a beginner can easily access the cloud and start using it. The last example is Alibaba Cloud which is a global leader in cloud computing and artificial intelligence, providing services to thousands of enterprises, developers, and government organizations. Committed to the success of its customers, Alibaba Cloud provides reliable and secure cloud computing and data processing capabilities as a part of its online solutions.

What is a Cloud Service Provider ?

Cloud service providers are companies that establish public clouds, manage private clouds, or offer on-demand cloud computing components like Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS), and Software-as-a-Service (SaaS). Cloud services can reduce business process costs when compared to on-premise IT. These clouds aren't usually deployed as a standalone infrastructure solution, but rather as part of a hybrid cloud.

Examples of Cloud Computing Service Provider

Comparison Among The Service Providers

Microsoft Azure's pricing is equally difficult to discern. They offer many situational discounts, making it tough to tell what your actual price will be without talking to a sales representative. The software licensing system also isn't very clear-cut, adding an extra layer of complication into the pricing mix. For technical support and training, **Microsoft** has poured time and effort into Azure to make it a user-friendly option. While there sometimes be a steep learning curve, it's one of the easier clouds to get set up, and it's fairly easy to manage once it's in place. For storage and backups, Microsoft Azure offers a large storage, perfect for storing big applications, as well as options for unstructured data. Microsoft also offers an actual backup service, where some competitors do not. Google offers flexible contracts to its customers along with steep discounts in an attempt to draw clients who are currently spending large sums with their competitors. For training, GCP generally gets high marks for customer support from its users. Google is making a big push for their cloud platform's growth, so support is easily accessible. For storage, Google storage options include unified object storage and persistent disk storage, and the number of storage offerings is growing as GCP matures. Unfortunately, GCP does not offer any kind of backup or archiving services. Alibaba Cloud is unique in that they offer new customers the free trial with the highest value worth to $1,300. This allows them to try out the platform and see how it works. All of their available services are priced on a pay-as-you-go model, which is great for businesses. They also offer quite a few tools that are free of charge. For support, Alibaba Cloud has a relatively new knowledge base, but it seems like it covers a large variety of topics. For storage, Alibaba Cloud offers four different storage options, including object storage, file storage (NAS), elastic block storage (EBS), and storage capacity units (SCU). There is also a hybrid backup recovery service that protects data stored in your Alibaba Cloud. IBM regularly reviews its cloud product prices. However, the total costs are higher than the ones offered other cloud computing service provider. IBM offers discounts for monthly usage and the final price depends upon the negotiated rate. For support, there are several tools which help the customer to draw on deep industry expertise. For storage, IBM provides an object storage solution that enables massive scalability while lowering TCO and reducing the complexity of managing petabyte or even exabyte-scale storage. The biggest advantage of Adobe Creative Cloud is being able to instantly access an amazing suite of products for a fixed monthly price. Better yet, Adobe includes additional cloud services as part of your subscription fee, so users can store data, sync work to the web, and use a range of collaboration tools to track changes and communicate with clients and team members. For support, people using Adobe Creative Cloud will have instant access to all the latest desktop apps and new features as soon as they become available. Access is also provided to Adobe's Expert Services support team. With 100GB of cloud storage, file sharing capabilities, and the option to store all the activity related to specific projects in one place, Adobe Creative Cloud optimizes collaboration. This is essential for creating efficiencies within your business and ensures high levels of design consistency across projects.

REFLECTIONS

This newsletter is a great space to talk about a few cloud computing service providers details and comparison. The motivation that I gained from the chosen examples of Cloud Computing Service Providers is using a cloud provider is a helpful way to access computing services that you would otherwise have to provide on your own.

Cloud Computing is helping a lot in business whether it is a small or large. These Cloud Service Providers companies provide storage database server networking and the software through which the business can increase. Cloud computing allows a business to cut their operational and fixed monthly costs of hardware, databases, servers and software licenses. Cloud servers and data centers are managed by the cloud service provided. Therefore, there is no need for employee management. Eventually, it will reduce the need for IT resources, including people.

In conclusion, cloud computing is new technological development that has the potential to have a great impact on the world. It has many benefits that it provides to it users and businesses. So a customer can choose the company which is most suitable for their business and their requirement. While it might be tempting to focus on the price tag when it comes to choosing the best cloud provider, remember that the value of the cloud isn't limited to dollars and cents. While long-term cost savings are definitely a benefit, a company should be more concerned with ensuring accessibility, security, and the ability to recover data after a disaster.
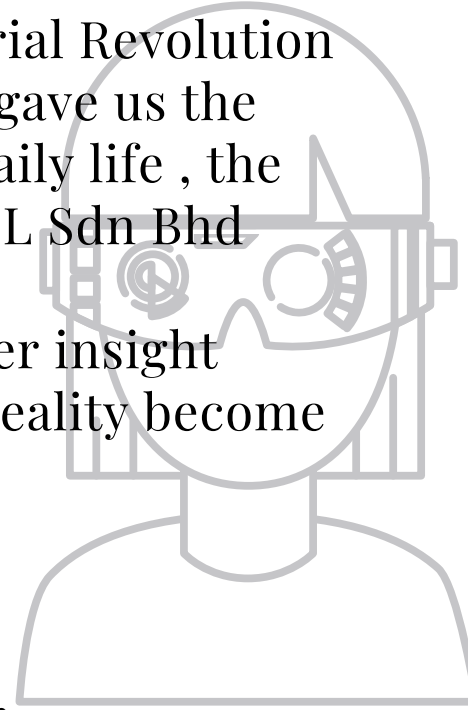
by NUR ATHIRA NABILA BINTI LUKMAN (A21EC0109)

AMAZON WEB SERVICES

Cloud Computing

SUMMARY OF THE TALK

The talk was given by Dr. Qusay Al-Maatouk, a lecturer from the Asia Pacific University. The talk was basically about how cloud computing is really like and from what Dr. Qusay said, it is a computing utility which provides the basic needs for an individual who needs more than just a computer for instance, a database, network and so on. I also learnt that AWS services were used worldwide and some of them were from large companies such as McDonalds a huge fast-food company. He also shared that cloud computing has much more benefits compared to traditional computing since from what he shared, traditional computing has many flaws because of staff problems and cloud computing don't need a lot of staffs compared to traditional computing which makes it easier to use and much more hassle-free. He also talked about AWS which stands for Amazon Web Services and there were three ways on how to interact with AWS which were, AWS Management Console, Command Line Interface and Software Development Kits. There were also lots of services provided by AWS and one of them was AWS Pricing Calculator which lets you calculate your monthly costs. All in all, the broadened my horizon on understanding what does cloud computing do.

REFLECTION

Now I realised that cloud computing is more than just for storage like Google Drive and Dropbox, it is more than that. It is a utility which provides more than just storage and it is really important for us nowadays ever since the internet is now faster and much more accessible to us. Other than that I think that by having services like these will make users become much more incline to try and use more of services similar to AWS.

WHAT IS CLOUD COMPUTING?

Cloud computing is the delivery of different services through the Internet. These resources include tools and applications like data storage, servers, databases, networking, and software.

AMOS KEAGAN HOSEA, A21EC0161

CURRENT TRENDS OF AUGMENTED REALITY IN INDUSTRY

28 NOVEMBER 2021

SUMMARY OF THE TALK

The talk is delivered by Dr Ruzimi Bin Mohamed@Mahmood , the founder of OZEL Sdn Bhd which is one of the company that provide a platform to educate people to learn sign language online and offline . The talk is basically a sharing sesion from Dr Ruzimi on his experiences and knowledge in Augmented Reality(AR) industry . He started with the intorduction of Industrial Revolution 4.0 and its 9 components which includes AR . On top of that , he gave us the exposure about the future of AR by 2025 , the uses of AR in our daily life , the types of AR by referring to youtube resources and also from OZEL Sdn Bhd marketing videos .

For the last half hour of the talk , Dr Ruzimi gave us an eye opener insight about skills that we have to master for making this Augmented Reality become a common innovations and technologies in our lives .
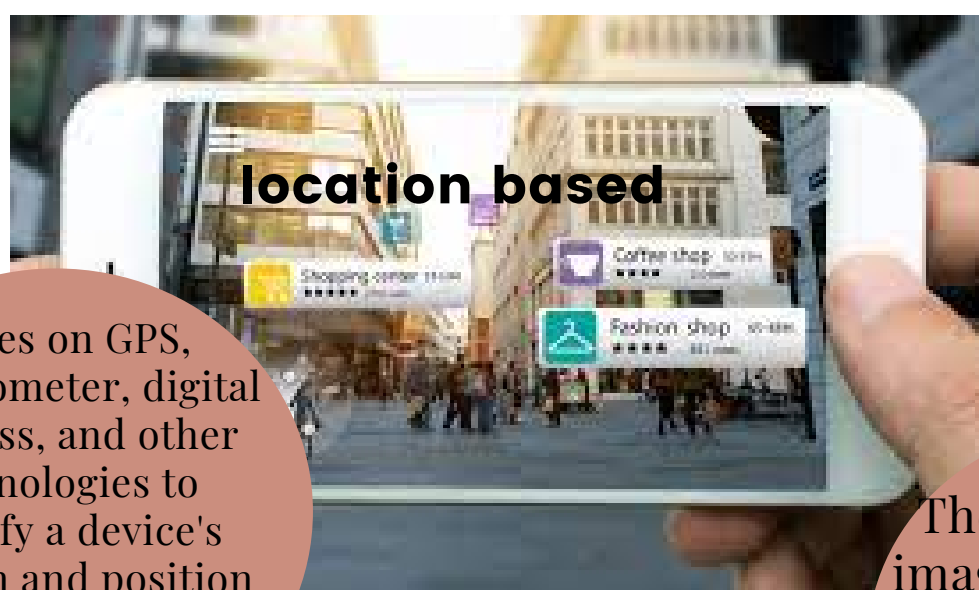
WHAT IS AUGMENTED REALITY

Augmented reality (AR) is a technologically augmented version of the real world that is created through the use of digital visual elements, music, or other sensory stimulation. It's a developing trend among businesses that deal with mobile computing and commercial apps. – Adam Haydes (Investopedia) .
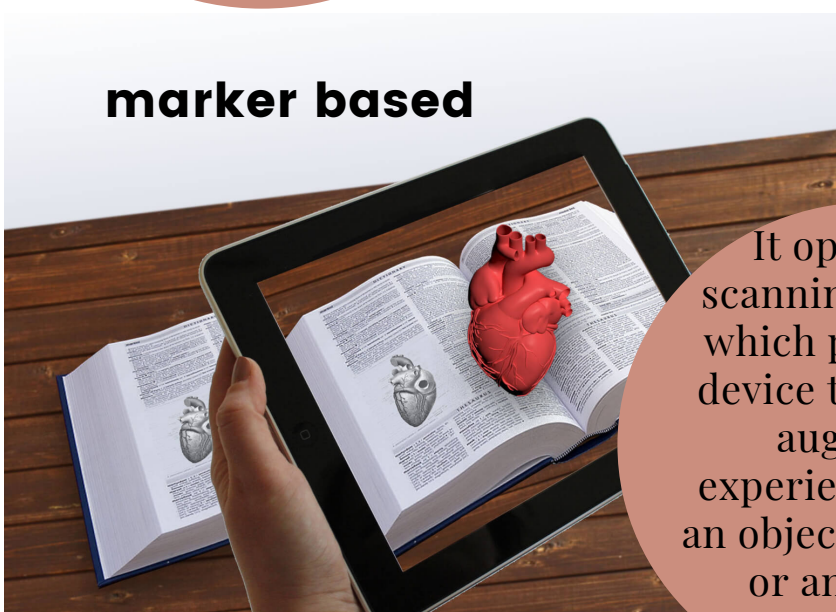
TYPES OF AR

location based

relies on GPS, accelerometer, digital compass, and other technologies to identify a device's location and position with high accuracy

superimposition based

The augmented image partially or completely replaces the source image.

marker based

It operates by scanning a marker, which prompts the device to display an augmented experience (such as an object, text, video, or animation).

projection based

uses a combination of projectors and vision sensors to display step by step interactive graphics onto any work surface.

REFLECTION

Ffrom this industrial talk, we realized that augmented reality technologies are very significant in todays life . By detecting hazards while driving , AR can reduce the number of accidents on the road . Customers can shop with satisfaction without putting their health at risk by using smart mirror instead of fitting room. Newbies surgeon can enhanced their surgical skills by practising using AR technology hence , saving more lives . Using AR lense technology, we can obtain any information in our surroundings. With the cited examples , it is crystal clear that AR helps human life become more convenience and valuable .

Dr Ruzimi did mention that he only has seven people working things out under his company because OZEL Sdn Bhd value the quality despite the quantity . With that being said , he admitted that he willing to pay his employee the amount of money that they demand with the condition that they have the quality that OZEL required . This shown that if you have the expertise , it is easier for you to mark your place in the worklife . The youngsters nowadays have to get themselves involved with the current and upcoming technologies regarding industry revolution 4.0 so that we can identify our best interest and start shaping the pathway to master the chosen industry . With the growing numbers of graduates that have a good skills in their field , our nations will be having the new upcoming technologies that absolutely accelerates the development of humans' life .

AWESOME USES OF AR

- **education** - helps to improve the learning experience for students especially for more visual-focused learners
- **appliances , furniture and other tangible products**- customer clicks on a products and instantly see it overlaid wherever they point their mobile devices. customer can see how the furniture look in their homes .
- **clothing and fashion**- allows customer to see how a products might look on them .
- **AR lenses with micro-led**- displays the place information inside the wearers eye and it can facilitate virtual assistance with the help with AI .
- **outdoors and indoors navigation**- receive information about things on the road such as hotels, restaurants, roads .
- **healthcare**- provide virtual demos and simulations about related surgery or procedures.
- **automotive industry**- aware the drivers about the hazard or roads on the road . cars interior and exterior can be preview before purchase .
- **sports event**- data of the games can be analyse (speed of the tennis ball etc)

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