

INDUSTRY TALK 3 BY ASIA PACIFIC UNIVERSITY



ADVANTAGES OF CLOUD COMPUTING

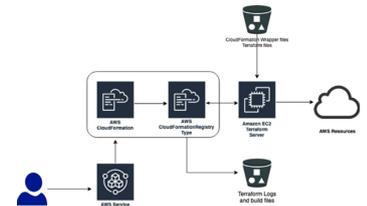
- 1. Trace capital expense for variable expense.** We don't have to invest a lot in data centers because you can pay only for the amount you consume.
- 2. Massive economies of scale.** Cloud computing platform bulk purchase to save unit costs.
- 3. Stop guessing.** With cloud computing, we don't have to guess the capacity needs of the infrastructure. You can access as much or as little capacity as you need, with flexibility to scale.
- 4. Improve speed and agility.** In cloud computing environment, we can just click away to find resources, which means you can reduce the time to get those resources in minutes.
- 5. Stop spending money on running and maintaining data centers.** Cloud computing lets you focus on your customers rather than the grunt work because no physical infrastructure needs to be maintained.
- 6. Go global in minutes.** With just a few clicks of the mouse, we can deploy desktop applications to multiple locations around the world.

SUMMARY

Cloud computing has been one of the fastest growing markets over the past five years, and this trend is sure to play a role in the new decade. With top cloud companies like Amazon, Microsoft, Google, and IBM investing in the technology, it's clear that cloud will become more and more innovative with each new release. In addition, cloud computing has brought many benefits to society and contributed new technologies to the world. Cloud computing is mobile, allowing users to access it anytime and anywhere in the world. It reduces delays for users in things like transportation. Therefore, cloud computing brings more convenience to our work, study, and life.

WHAT IS CLOUD COMPUTING?

Cloud computing is a computer service that delivers computing power, databases, storage, applications, and IT resource pools through on-demand network access. It provides and publishes services quickly and with minimal interaction with service providers



Information about cloud computing

Typical cloud infrastructure resources are divided into computing, storage, databases, and networking. There are three main cloud deployment models, public, private, and hybrid. The key concepts of cloud computing are on-demand, scalability, economies of scale, flexibility, growth, utility-based metering, shared infrastructure, high availability, and security as shared responsibilities. There are three main cloud computing service models. The first service is software as a service (SaaS). A method of accessing an application through a Web browser. The second service is platform as a Service (PaaS), which provides computing platforms and solution stacks (such as LAMP) as services. The last is infrastructure as a service (IaaS). The use of commercial computers distributed over the Internet to perform parallel processing, distributed storage, indexing, and mining of data.

What is the web service?

Web services are a standardized medium for propagating communication between client and server applications, such as Extensible Markup Language (XML) or JavaScript object notation (JSON) for requests and responses.

What are AWS?

It is a platform that offers flexible, reliable, scalable, easy-to-use, and cost-effective cloud computing solutions. There are three ways to interact with AWS which is AWS management console, command line Interface and Software Development Kits.

Reflection

- Cloud computing has brought great changes to our lives. It can help me improve and prepare in the future. This is because when I create a project, cloud computing can help us increase the chances of success of the project and focus on the production and quality of the product. Besides, cloud computing is very useful toward businesses, because it helps business to store data and information easily.
- Thanks to the cloud, organizations and individuals can now share and access resources on many networks connected to the Internet, we save a lot of time, we can simply use phones, laptops or desktop computers to access all information, eliminating the need to go out and investigate.



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CLOUD COMPUTING SERVICE PROVIDER

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Cloud computing is the delivery of computing service through the internet, which include servers, storage, databases, networking and software. This method can lower the cost and helps the user to focus on their business instead of being distracted by IT issues. Both data storage and maintenance will be managed by the cloud computing service provider.

List of cloud computing service provider

There are a lot of companies that provide cloud computing services, with each of them being slightly different from the others. The cloud services provider can be compared by its data center and availability location, security, pricing model and contract terms. Below are some of the examples for cloud service providers.

The First one is IBM Cloud. Formerly known as Bluemix, is a set of cloud computing services provided by International Business Machine Corporation (IBM), an information technology company. There are 60 data centers located in 6 regions on every continent except Antarctica. Users can access 40+ services for free when they first start an account and receive a 200 US dollar credit that is valid for 30 days. Then, by upgrading the account, users can access 350+ services, plus they can get a discount by paying for only the services they use.

Next is Google Cloud Platform (GCP). A suite of cloud computing services provided by Google that runs on the same infrastructure that Google uses internally for its end-user products such as Google Search and Google Drive. Its Data Centers are located across 21 regions with 3 zones as a minimum in each region. New users can start for free and get 300 US dollar credit with access to 20+ products offered. Also, users can optimize usage costs with AI-powered intelligent recommendations and a custom dashboard that displays cost trends and forecasts.

Another is Microsoft Azure. Often referred to as Azure, it is a cloud computing service offered by Microsoft. Its data centers are located across 38 regions around the world and Malaysia will be one of them in the future. There are exclusive clouds called Azure for government, designed for US government agencies including federal, state and local. Users can start for free and use selected free services for 12 months, plus receive 200 Dollar credit to explore other services within the first 30 days of signing up.

There are also Alibaba Cloud, a cloud computing company and a subsidiary of Alibaba Group. Its data centers are located in 12 regions in mainland China and 13 regions outside China, including Kuala Lumpur, Malaysia. Alibaba Cloud provides 2 flexible billing options, the first one is pay-as-you-go billing where users only pay for the services they use with no upfront payment required. Another one is save by subscription billing where users pay the lower rate to maintain day-to-day services.

Lastly, there are Rackspace Technology, an American cloud computing company based in Windcrest, Texas. It has a total of 12 data centers worldwide, which are in the U.S.A, UK, Australia, Singapore, China, Hong Kong and Russia.



Google Cloud Platform



Reflection

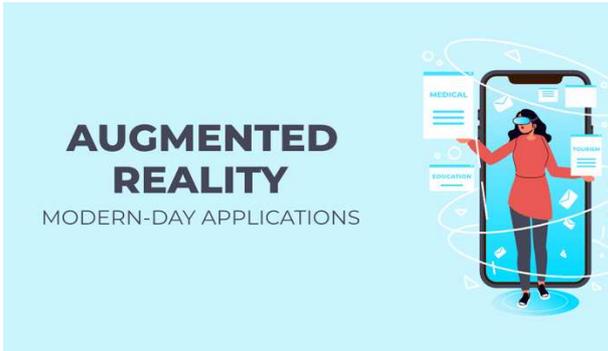
- The existence of multiple cloud services providers allowed users to choose which providers they are comfortable with. Users can choose which of the cloud service providers are available in their region and which of them have a reasonable price that aligns with their usage.
- Cloud computing services should keep evolving and become more efficient as they contribute to humanity's advancement in technology and modern lifestyle.

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INDUSTRY TALK 4 BY OZEL Sdn Bhd

Summary

Augmented Reality (AR) changes the overall environment around us with the touch of modern technology. Real-time merging of information and virtual objects on real-world scenes. It takes an existing environment and augments it with information to create a new artificial environment. By utilizing the computer's vision to analyse the surrounding physical environment, AR unites with the real and virtual world.



AUGMENTED REALITY

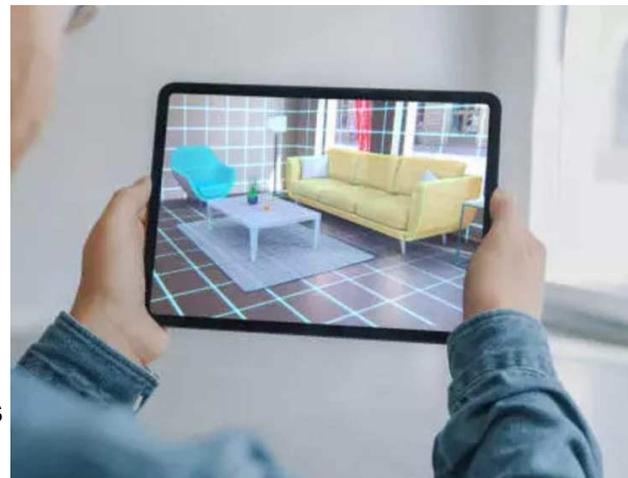
MODERN-DAY APPLICATIONS

AUGMENTED REALITY (AR)

Augmented reality (AR) puts digital content on top of a video stream, giving the impression that the digital content is a part of the actual world. This is accomplished by computer vision, which distinguishes AR from VR, in which users are transported into entirely digital worlds.

AR is a strong business method that allows people to engage with their surroundings in real time, including sensory modalities such as visual presentations that utilize 3-D registration of virtual and real things.

As a result, augmented reality applications have spread across a variety of economic sectors, including education, communications, medical, and entertainment. Content can be accessed in education by scanning or seeing a picture on a mobile device, or by using markerless AR techniques. Mostly AR is now used in Video Games companies. They are trying to make more this kinds of games for attraction. Not only games it also plays great role in different sector in new era technology.



Because our world is immersed with new technologies, AR designers will have a bright future and will be a big job choice for software programmers. An Augmented Reality Designer is the one who uses technology to superimpose it in the real world. Duty of an augmented reality designer is to work with the computer-generated image, media and graphics in a manner that they enhance the day to day physical surrounding of an individual.

REFLECTION

- The brief discussion of Future of Augmented reality technology, Augmented reality education, Augmented reality furniture, Augmented reality clothing, Augmented reality navigation, Augmented reality healthcare, Augmented reality automotive industry, Augmented reality sports, Augmented reality user interface, etc.
- A mobile Application "ISKANDAR" which is based on Augmented reality.

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