

CLOUD COMPUTING SERVICE PROVIDER

NEWSLETTER



SERVICE PROVIDER :

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Serverspace is a cloud server with Windows & Linux OS. You can customize your configurations and spin up your virtual machines (VM) in no time.

Serverspace has:

- **unlimited traffic**
- **high-end performance**
- **24/7/365 human tech support**

So, all programs and apps hosted on this platform run efficiently and are **accessible 99.99% of the time**. The VMs are based on the latest 2nd Gen Intel Scalable CPUs with 3.1 GHz frequency and deliver a ground-breaking new level of cloud computing. It also has fast-speed solid-state drives with a remarkable IOPS rate. The data is kept 3x and always accessible with no lags.



Linode is the largest Independent Open Cloud Provider with over **800,000 customers in 196 countries** founded in 2003. Linode only provides servers that run Linux and its services have always been known for their stability. Linode provides affordable shared plans for general workloads including generous amounts of **free bundled transfer** with **24/7/365 human support**.

It has dedicated and high memory instances on their own CPU cores and on-demand GPUs for machine learning, scientific computing, and video processing. Linode gets industry-leading price-performance and implements more with Linux virtual machines, global infrastructure, and simple pricing.

Microsoft Azure is Microsoft's public cloud service platform. It officially launched in February 2010 with 54 data centers and 44 CDN jump points (POP) worldwide. Microsoft Azure includes more than **30 services** and **hundreds of features**.

Azure builds, runs, and manages applications across multiple clouds, on-premises, and at the edge with the tools and frameworks you choose. Azure helps in development, data storing and service with **flexibility**, **scalability**, and **cost-effectiveness**. It offers uniformity across clouds with typical kits and resources. With Azure, it's effortless to level your IT resources matching your business demands.

IBM Cloud Computing provides the most open and secure enterprise public cloud as the **next generation of hybrid multi-cloud platforms** with advanced data and AI capabilities. The full-stack cloud platform includes **more than 170 products and services**. IBM uses existing infrastructure, even edge or other public clouds, with IBM Cloud services, APIs, access policies, security controls, and IBM Cloud Satellite compliance.

IBM Cloud can:

- offers high performing cloud communications and services into your IT environment
- abolishes the complex issues and the issues encountered by large companies
- used to build pioneering which helps to gain value for your businesses

Google Cloud Platform is a variety of cloud computing services provided by Google that provide infrastructure services, platform services, and serverless computing environments on servers running Google Search and YouTube. Besides providing management tools, the Google Cloud Platform offers a range of modular cloud services:

- cloud computing
- data storage
- data analytics
- machine learning

The data stored in Google Cloud is **protected** and can be **accessed effortlessly**. Google cloud offers a variety of services from IaaS to PaaS. It eliminates the need for installing costly servers and allows you to transform your business with a full suite of cloud-based services.

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REFLECTION

Through this topic, we had gained a lot of knowledge of cloud computing service providers other than AWS. The different cloud computing service providers have different features that can bring many benefits to human life in various fields such as education, business, management, etc. We can use cloud computing service providers and take these advantages to improve life quality. Thus, we must actively and wisely apply cloud computing service providers to life.



COMPARISON

CLOUD COMPUTING	MAIN ADVANTAGES	OPERATING SYSTEM	SUPPORT
Serverspace	Predictable pricing	Windows and Linux OS	24/7/365 technical human support
	Scalability		
	Security		
	Fast-speed		
Linode	Predictable pricing	Linux	24/7/365 human support
	Cloud simplified		
	Proven secure & reliable enterprise-grade infrastructure		
	Documentation & community		
Google Cloud Platform	Compute engine	Windows	Technical support
	Data storage		
	Auto ML		
	Autoscale		
IBM Cloud	Security scanner	IBM OS/2 and Linux	Full-service AI assistant
	Include PaaS, IaaS, SaaS		
	Business prediction		
	Predictable environment		
	Foundational security		
Microsoft Azure	Fast path to improved ROI	Windows and Linux	Technical support
	Cost effectiveness		
	Scalability		
	Flexibility		
	Fast-speed		
	Advanced business insight		

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NEWSLETTER

CLOUD COMPUTING & AWS



Cloud Computing

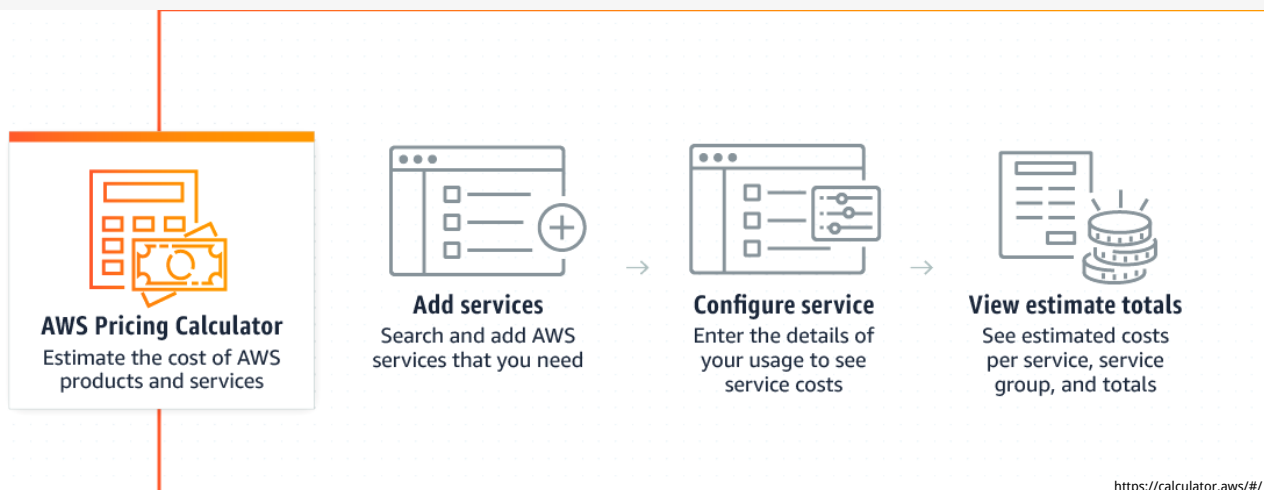
Cloud computing is the on-demand delivery of computing power, database, storage, applications, and various IT resources via the internet with pay as you go pricing. Cloud computing helps developers and IT departments avoid undifferentiated work like procurement, maintenance, and capacity planning. There are three main cloud service models which are Infrastructure as a service (IaaS), Platform as a service (PaaS) and Software as a service (SaaS). Moreover, there are three main cloud computing deployment models which are Cloud, Hybrid and On-premises.

Amazon Web Services

AWS is a secure cloud platform that offers a broad set of global cloud-based products. It functions for computing, storing, networking, databasing, and other IT resources. the more common services of AWS are compute services, storage services, database services, networking and content delivery services, security, identity, and compliance services, management and governance services, and AWS cost management services. There are some three ways to interact with AWS which AWS Management Console, AWS Command Line Interface (AWS CLI) and Software development kits (SDKs).



<https://www.halcyontek.com/amazon-web-service.aspx>



AWS PRICING CALCULATOR

- Estimate monthly costs of AWS services
- Identify opportunities for cost reduction
- Model your solutions before building them
- Explore price points and calculations behind your estimate
- Find the available instance types and contract terms that meet your needs

A lot of companies are interested in moving to Cloud Computing because it has many benefits. The first benefit is that we can trade capital expense with the variable expense. For capital expense, we need to pay for everything in the data centre such as equipment, industrial buildings, and property no matter we use it or not. On the other hand, the variable expense is that we are only required to pay the number of resources that we actually consume and it will save us a lot of money.

Besides, we also do not need to worry about guessing capacity by using Cloud Computing. When we try to estimate the capacity that we needed, it will always be different from our actual usage. By using Cloud Computing, we can access how many resources we needed at any time.

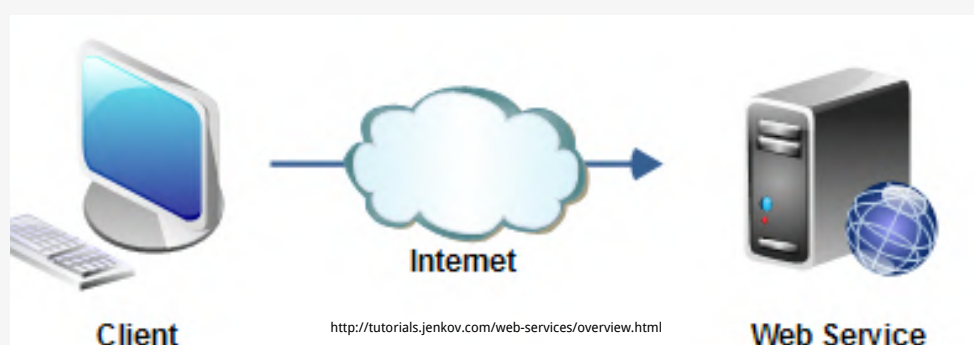
REFLECTION

After learning this Industrials Talk, we have enhanced our understanding of Amazon Web Services and Cloud Computing. These technologies have brought us great conveniences especially for the industry field, commerce field and so on. Through the advancement of cloud computing and AWS, the world's living levels have improved as technology is one of the most important fields that the whole world had put much effort to strengthen. Thus, we must gain more knowledge about cloud computing and AWS so that we get to know the right way to use them to benefit our lives.

Another benefit of Cloud Computing is that it has higher speed and agility compared to traditional data centres. Whenever we need to use new IT resources, we just need to go to any Cloud Computing website and select what we want. The time we used to make those resources available is just significantly lower compared to traditional data centres.

Moreover, we do not need to pay for the maintenance of data centres if we are using Cloud Computing services. We can save that money and use it to provide better services to our own customers.

Last but not least, we can deploy our application to the global within a few clicks. There are multiple AWS regions in different countries and it can help us to provide a low latency experience to our own customers.



NEWSLETTER

Current Trends of Augmented Reality in Industry



3 TYPES OF AR

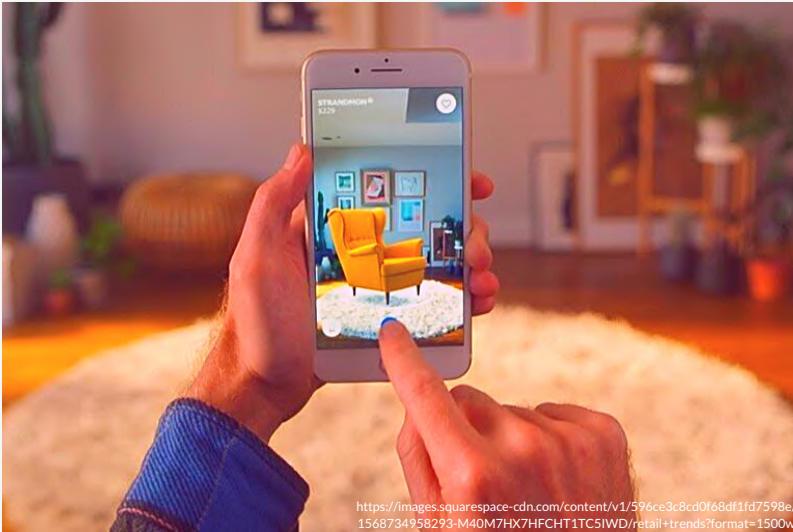
Marker Based AR
Projection Based AR
Superimposition Based AR

SUMMARY OF THE TALK

The talk is focus on Augmented Reality which is one of the nine digital industrial technologies included in Industry 4.0. Industry 4.0, the digital transformation of manufacturing and related industries and value creation processes has brought us huge improvement in digital technologies and Augmented Reality is consider as one of the most potential technologies that can bring huge amount of revenue in future. Snapchat and Instagram will be the biggest user of moblie augmented reality. Its also believed that 9/10 brands plan to use projected revenue by AR in their campaigns by 2022.

COMMON POSITIONS IN AR WORK

AR/VR content developer
AR/VR content strategist
AR/VR user experience designer
Designer, animator or sound artist specializing in AR & VR
AR/VR community manager
AR/VR project manager



THE FUTURE OF AR IN USE CASES

Education Augmented Reality

Improve the learning experience for visual-focused learners. One of the primary advantages of augmented reality is the ability for a student to inspect a 3d hologram from many different angles. This alone can revolutionize learning in topics like biology, anatomy, cosmology, geometry, and more.

Appliances, Furniture, Clothing & Fashion Augmented Reality

Customers can see how appliances and furniture look in their homes or allowing customers to see how a cloth might look on them. In this scenario, customers could quickly change types of colors, sizes, and so forth before making a purchase.

Automotive Industry Augmented Reality

Heads-up displays can help drivers process information that enhances their view of roads. This type of display can make drivers aware of potential hazards occurring ahead of them on their commutes. Car manufacturers like Nissan, Audi, and Volvo already use this type of technology.

REFLECTION

This industrial talk by Mr. Ruzimi Mohamed was very memorable and beneficial to us. We had strengthened our knowledge about Augmented Reality. We saw how humans use AR in different categories of our daily life. AR technology contributes a lot of benefits in various fields like education, business, medical, social, industry, etc. One of the most fascinated pieces of information we gained was how AR contributes to the medical field. There is an app specially designed for surgeons so that they can perform virtual surgeries through it. Through that app, they can try different techniques to do surgery and research as many times as they want without worrying about failure. Hence, we should share the knowledge we gained from this talk with our family and friends to let more people learn about AR.



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