

CLOUD COMPUTING SERVICE PROVIDER



Google Cloud is one of the cloud computing services offered by Google which has data centers all around the world that have allowed it to scale to billions of users. These data centers house the computing infrastructure that powers the Google products you may be familiar with, such as Search, Gmail, and Google Photos. Google Cloud gives you access to the same technology and infrastructure that powers Google. Google Cloud has over 100 products and tools in categories like compute, storage, and machine learning and artificial intelligence that seamlessly integrate together all a click away. What is Google Cloud? In a sentence, Google Cloud lets developers build and host applications and websites, store data, and analyze data, all on Google's scalable and reliable computing infrastructure.



Azure is the platform provided by Microsoft. It is basically an online portal through which you can access and manage resources and services now resources and services are nothing but you can store your data and you can transform the data using services that Microsoft provides. All you need is the internet and being able to connect to the Azure portal then you get access to all of the resources and their services. Azure was launched on February 1st, 2010 which is significantly later than when AWS was launched. It's free to start and has a pay-per-use model.



Oracle is a cloud computing service offered by Oracle Corporation. Oracle Cloud provides servers, storage, network, applications, and services through a global network of Oracle Corporation managed data centers. Oracle has created a cloud fabric with no single point of failure improved SMAS and enterprise-grade infrastructure for a great deal improved performance and security compared to alternative cloud providers. With the lowest cost of deployment, Oracle cloud became a truly compelling choice of platform. The point of unique is Oracle cloud enables customers to use exactly the same technologies and standards in the cloud.



Alibaba Cloud is the number one cloud service provider in China. With a diverse range of products and solutions, Alibaba Cloud provides reliable services to businesses of all sizes across the globe. With dozens of availability zones in 18 major international economic regions, Alibaba Cloud offers full-fledged support to millions of clients around the world with a global infrastructure network and provides reliable computing power to billions of users. Alibaba cloud has independently developed a distributed operating system to achieve the smooth scheduling of millions of servers and solve various problems including IT Infrastructure Performance Optimization, Resource Expansion, Automated Operation and maintenance for millions of customers in 200+ countries and regions globally.



IBM Cloud is a suite of cloud computing services from IBM that offers both platforms as a service (PaaS) and infrastructure as a service (IaaS). The IBM Cloud Catalog lists over 170 services across categories such as compute, network, storage, management, security, data management, security, data management, analytics, Artificial Intelligent (AI), Internet of things (IoT), mobile, developer tools, blockchain, integration, migration, VMware and just to name a few. The IBM Cloud enables the customers to have the same services available on the IBM private and public clouds, also on any third-party public cloud and services at the edge. IBM Cloud platform supports access to other IBM tools and services including IBM Watson and IBM Cloud Functions for serverless computing as well as those from third-party vendors.

COMPARISONS

Cloud Service Comparison	Google Cloud	Alibaba Cloud	IBM cloud	Azure	Oracle
Company	Google	Alibaba	IBM	Microsoft	Oracle
Founded	1998	2009	1911	1975	1977
Platform supported	SaaS	Windows Linux SaaS	SaaS	Windows	Windows Linux SaaS

REFLECTION

With cloud computing, we got to keep abreast with the latest technology. This is due to the fact that we need not worry about system upgrades because they are all hosted elsewhere. We just need to click a button to increase server capacity. Moreover, cloud computing is cost-saving. In the past, running, managing, and deploying local systems was very expensive and may cost a vast amount of money. In most cases, there are plenty of technicians involved and we have to pay a lot of money and time to maintain everything. However, in the cloud, because there is no longer a need to run, manage, and deploy the system, a lot of costs can be saved. Besides, due to the data being stored in the cloud, our workplace is no longer limited to the office. On the contrary, we can work on tablets and mobile devices.

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WHAT IS AUGMENTED REALITY (AR)?

(Augmented Reality Definition, 2021)

Augmented reality (AR) is a technologically augmented version of the physical world. It involves overlaying digital visual, auditory, or any other digital sensory stimuli onto the real-life environment. AR enhances the present world, unlike virtual reality, which creates its virtual world. Augmented reality (AR) is one of the most popular technology innovations right now. It will only become more popular as AR-ready smartphones, tablets, and other devices become more widely available. The most well-known examples of AR technology are from video game revenue, which includes the Pokémon GO apps and Harry Potter: Wizards Unite.

FUTURE OF AR (10 USES CASE)

1. Education
2. Appliance/Furniture
3. Clothing & Fashion
4. JARVIS-like Virtual Assistance
5. Creation of Metaverse
6. Outdoor & Indoor Navigation
7. Healthcare
8. Automotive Industries
9. Sporting Events
10. Virtual User Instructions & Assembly Instructions



(Shaye Weaver, 2020)

TYPE OF AR

Marker based

Projection based

Super-imposition based

The majority of augmented reality jobs now are existing job titles with an AR descriptor. Positions that are commonly entitled:

- Designer, animator, or sound artist specialized in AR
- AR content developer and strategist
- AR community and project manager

Industrial Revolution 4.0 (IR4.0) is projected to alter our way of life, work, and communication. One that is already visible is the change in the business world and employment trends. Hence, what does this mean for today's students? They need to hone specific skills to get employed, and here are the skills included:

- Emotional intelligence
- Creativity
- Critical thinking
- Solving complex problems
- Judgement and decision making
- Service orientation

REFLECTION

(Arno Sosna, 2019)

As AR technology evolves and becomes more affordable and user-friendly, more positive impacts have surfaced. One that we can witness is from the healthcare sector. For example, it maps a patient's body and shows the exact location of veins so that medical personnel can get it right the first time when collecting blood or beginning an IV before surgery. By presenting complicated ideas in interactive formats, AR technology also helps retain and interpret information for doctors and patients. Hence, with AR abilities already in place, more life sciences businesses should explore using AR as a crucial tool to communicate, educate, and enhance patient treatments and outcomes.

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Amazon Web Service

WHAT IS AWS?

Amazon Web Service is a secure cloud perform that offers a broad set of global cloud-based products. AWS provides people with on-demand access to compute, storage, network, database, and others IT resources and management tools. AWS is one of the cloud-based services that provide users with flexibility. Users only need to pay for the individual service required.

CATEGORIES OF AWS

Amazon Web Services offers plenty of products for their customers. One of them is analytics. Amazon CloudSearch, AWS Data Exchange, are some of the examples of analytics services that are provided. Next, AWS also offers database services like Amazon Aurora, Amazon DynamoDB, and Amazon Timestream. Amazon Web Services also offer other exciting products like Game Tech, DataBase, Internet of Things, Robotics, Machine Learning, Storage, and many more.

AWS CLOUD ADVANTAGE

AWS Cloud provides the customer with a self-serve infrastructure. Next, no upfront expenses, as customers need to pay only for what services they use. Other than that, AWS has a high level of security. It is because AWS uses the end-to-end approach to provide the cloud infrastructure with a high-end security framework. AWS cloud also improves time to market and agility as compared to traditional infrastructure.

AWS PRICING CALCULATOR

AWS Pricing Calculator is a service that helps the user to estimate monthly expenses, identify opportunities to reduce monthly cost, find the available instance types and contract terms that meet your needs, and explore price points and calculations

REFLECTION

Amazon Web Services had positive impacts and helped their customer in many aspects. People that run business benefits well through this cloud computing service. It is because cost management will become much more manageable. All they have to do is pay for the storage, the computer power, and the other resources they need. They will not be required to participate in long-term contracts and commitments. There are also no infrastructure costs that can be focused on the efficient and effective operation of the business. Amazon Web Services provide many services to make people work more accessible and better. So, people should migrate to AWS as we are going through the phase of modernization, and no one should be left behind.

INDUSTRIAL TALK BY DR
QUSAY AL MAATOUK

TABLE OF CONTENTS

WHAT IS AWS ?

CATEGORIES OF AWS

AWS CLOUD ADVANTAGE

AWS PRICING CALCULATOR

REFLECTION



REFERENCES:

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