

CLOUD COMPUTING

-Service Provider-



Google Cloud Platform (GCP)

Google Cloud Platform is a part of Google Cloud which provides public and infrastructure for hosting web-based applications. It was mainly used for building and maintaining original applications and used to support internal product such as Google Search and YouTube. GCP provides wide range services based on user primary computing needs like infrastructure as a service (IaaS), platform as a service (PaaS), and software-as-a-service (SaaS). The core services are Compute, Networking, Storage and Databases, Artificial Intelligence (AI) / Machine Learning (ML), Big Data, Identity and Security, and Management Tools.

Microsoft Azure



Microsoft Azure was operated by Microsoft for application management via Microsoft-managed data centers. It provides SaaS, PaaS, and IaaS and supports many different programming languages, tools, and frameworks, including both Microsoft-specific and third-party software and systems. Azure also provide 600+ cloud services such as computer services, identity, mobile services, storage services, communication services, data management, messaging, media services, CDN, Azure AI, IoT, Azure Orbital, Developer, Azure Blockchain Workbench



Alibaba Cloud

Alibaba Cloud also known as Aliyun and was initially built to serve Alibaba's own e-commerce ecosystem and is now offered as public cloud. Alibaba Cloud provides cloud computing services includes PaaS, IaaS, SaaS, big data and bespoke solutions. Elastic Computing and Networking, Security and Management, Database, Application Services, Domains and Websites, Storage and CDN, and Analytics are just a few of the cloud computing goods and services available. It was well-known for its high scalability and hybrid capabilities, which were backed by the world's largest hybrid cloud architecture, which provided scalable computing capacity, powerful real-time data processing, and analytic capabilities.



IBM Cloud

IBM Cloud, formerly known as Bluemix, was a cloud computing service provided by IBM, a multinational technology corporation. To design, execute, deploy, and manage cloud applications, it supports a variety of programming languages and services, as well as integrated DevOps. Java, Node.js, Go, PHP, Swift, Python, Ruby Sinatra, and Ruby on Rails are among the languages that are natively supported, and functionality can be extended to support new languages such as Scala using buildpacks.



Oracle Cloud

Oracle Cloud is a global network of Oracle Corporation-managed data centres that provides servers, storage, networking, applications, and services. It provides IaaS, PaaS, SaaS and DaaS. Many open standards (SQL, HTML5, REST, etc.), open-source applications (Kubernetes, Spark, Hadoop, Kafka, MySQL, Terraform, etc.), and a variety of programming languages, databases, tools, and frameworks are supported, including Oracle-specific, Open Source, and third-party software and systems.

COMPARISON

	Launched	Block Storage	Assignable IPs	SMTP support	IOPS Guaranteed min	Cert Availability	Global Availability
GCP	2008	Yes	No	No	Yes	Yes	24 rgn
Azure	2010	Yes	Yes	Yes	Yes	Yes	38 rgn
IBM	2005	Yes	Yes	No	Yes	No	6 rgn
Alibaba	2009	Yes	Yes	Yes	Yes	No	25 rgn
Oracle	2014	Yes	Yes	Yes	Yes	No	25 rgn

Technology and Information System & Amazon Web Services Cloud Computing

Summary:

Cloud computing acts as a software infrastructure rather than a hardware infrastructure. Software infrastructure is more tunable than hardware and can be changed faster, more easily, and at a lower cost. This overcomes the limitations of infrastructure such as hardware, space requirements, people, physical security, scheduling, capital investment, scalable hardware provisioning cycles, and capacity provisioning. Many advantages of cloud computing can be discussed.

Amazon Web Services (AWS) as cloud computing service provider. AWS is a secure cloud platform that offers a wide variety of cloud products around the world. AWS is a secure cloud platform that provides a diverse range of worldwide cloud-based products. The AWS cloud platform is great because it can provide customers with a wide range of options, high quality, and low prices, as well as many other benefits.



Issues Discussed: Cloud Computing Advantages

First, instead of investing in an estimate-based data center, cloud computing allows customers to simply pay for what they use. The second is the overall consumption level of customers. Cloud computing can provide huge economies of scale, enabling them to provide customers with lower prices.

Additionally, allowing their customers to scale on demand instead of guessing capacity. Customers get their resources within a minute. Or, customers can invest money in their business instead of maintaining a data center. Finally, in just a few minutes, the business can expand worldwide. AWS has servers and a large number of data centers around the world.

Amazon Web Services (AWS) Advantages



AWS provides customers with multiple options. For example, customers can choose a cloud service model from IaaS to PaaS to SaaS. There are also several cloud deployment models, including cloud, hybrid, and on-premises. AWS provides a wide range of services and is the basis for selecting customers based on business goals and requirements.

The services provided by AWS are computing, security, storage, databases, and networks, just like traditional IT. AWS also provides management, governance, and expense management services. There are also three ways to interact with AWS: Management Console, Command Line Interface, and Software Development Kit. In addition, AWS provides four support plans: basic support, developer support, business support, and enterprise support.

AWS provides total cost of ownership (TCO) considerations to help customers balance local costs with AWS costs, such as servers, memory, network, and IT labor. AWS can save up to 96% annually. AWS Pricing Calculator provides users with a framework by estimating, tracking monthly costs, and modeling solutions.



Reflection:

The provision of various services over the Internet is called cloud computing. These resources include data storage, networks, and other tools and applications. Cloud computing brings many benefits to businesses, especially in terms of flexibility, cost reduction, and efficiency.

AWS cloud service is one of the most popular cloud computing services. AWS provides an easy-to-use and efficient cloud computing platform. After listening to this industry talk, I can understand the benefits of cloud computing. It helps businesses save money by reducing data center maintenance costs and moving all content over the internet, allowing them to adopt this technology. I have seen the difference between traditional methods and cloud computing, and discovered that cloud computing makes it easier for us to store data at a lower cost.



CURRENT TRENDS OF AUGMENTED REALITY IN INDUSTRY

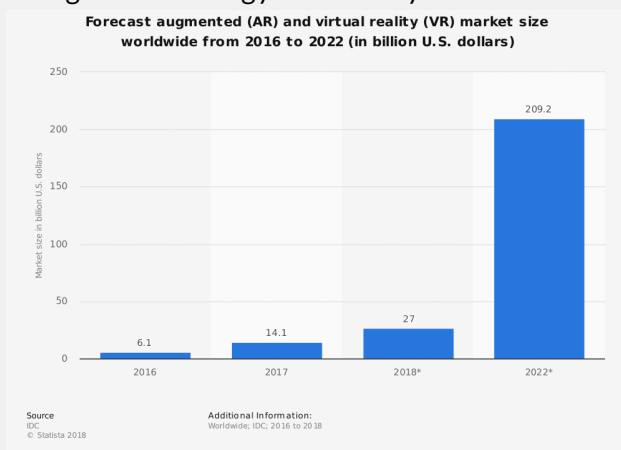


In every field, technology has advanced significantly, and it has become an integral part of our daily life. It is estimated that 10% of the world's population will wear internet-connected clothing by 2025. From the invention of the first computer in 1938 to the present day, tremendous progress has been made that has had a profound impact on our lives. There are other technological subjects and ideas that can be discussed, but we will focus on Augmented Reality. let's see what's Augmented Reality (AR) is? It is one of the fastest-growing technology, with a wide range of applications. It can be used in a variety of applications, including games, fashion, shopping, education, and so on. The term "augmented reality" refers to a technology that incorporates visual objects or a virtual world into a real-time display. Augmented reality is a new technology that has recently gained popularity; the origins of such a project may be traced back to the first industrial revolution.

Industry

In 2020, as many as 32% of users have used AR for shopping.

AR offers a rare opportunity to find consumers and to direct the buyer's focus on selling points of your products. Famous furniture company IKEA even started realying on AR selling. In September 2017, during the iOS 11 keynote, Apple announced IKEA as a launch partner for ARKit. Having the ability to see and measure the furniture you want to buy on your phone screen in seconds without having to buy it is a brilliant job. Apple Store has even begun to create AR for its items to be viewed. According to the Forrester report, it is projected that 14 million American employees will likely use smart glasses on a daily basis in their workplaces by 2025. AR changes the way you work, learn, play, shop, and interact with the world. Sales will increase while customers buy actions will be made easier by merging and using AR technology in a variety of industries.



Game

Gaming

By 2023, the "AR Gaming Market" is estimated to be worth \$284.9 billion.

When you hear the words augmented reality and gaming together, your mind immediately jumps to Pokemon Go. The first pokemon game was made in 1996 and in 2016 just after 20 years we had augmented game in Pokémon go game that grabbed millions of attention. To give you some context, the game has been downloaded over one billion times and is expected to generate \$1.2 billion in sales. Furthermore, during the anticipated period 2017–2023, the global AR gaming sector has a compound annual growth rate (CAGR) of 152.7 percent.



Education

Education is necessary for society, but it is not free. It takes time, effort, money, and resources to complete. In teaching, vr technology is the first step toward enormous progress. We will be able to perform a lot more things quicker and simpler thanks to the technology featured in educational augmented reality apps. Teachers can use augmented reality to present virtual examples of ideas and incorporate gaming aspects to supplement textbook material.

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