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AMAZON WEB SERVICES

15TH NOVEMBER 2021   **INDUSTRY TALK 3**

SUMMARY OF TALK

The talk given by DR. Qusay Al-Maatoub focuses on Amazon Web Services (AWS). The talk emphasized on one of the services provided by AWS which is Cloud Computing. Amazon Web Services (AWS) started to offer IT services in the form of web services, which is nowadays known as cloud computing. AWS provides a highly reliable, scalable, low-cost infrastructure platform in the cloud that powers multitude of businesses around the world.

CLOUD COMPUTING

WHAT IS CLOUD COMPUTING?

-Cloud computing is the on-demand delivery of computer power, database, storage, applications and other IT resources via the internet with pay-as-you-go pricing
-Cloud computing enables our infrastructure to be used as software instead of hardware   .

TRADISIONAL VS MODERN CLOUD COMPUTING

-In traditional computing the infrastructure acts as hardware while in cloud computing infrastructure acts as software.
-The hardware requires space, and physical security planning.
-Cloud computing model are widely used because the software are flexible and can change easily.

CLOUD SERVICE MODELS

-process of deploying an application through one or more hosting models
-3 cloud service models- IaaS, PaaS and SaaS
-IaaS has more control over IT resources followed by PaaS and SaaS
-4 main types of cloud computing- private, public, hybrid and multi clouds .

ADVANTAGES OF CLOUD COMPUTING

-Reduces the cost of managing and maintaining IT systems
-Scalability
-Business continuity
-Collaboration efficiency
-Flexibility of work practices

WHAT IS WEB SERVICES?

-Any piece of software that makes itself available over the internet and uses a standardized format
-Eg: Extensible Markup Language (XML)
-Used for request and response message of an application programming interface (API) interaction

WHAT IS AMAZON WEB SERVICES?

-AWS is a secure cloud platform that offers a broad set of global cloud-based products
-Provides on-demand access to computer, storage, network, database and other IT resources and management tools
-The categories of AWS are Analytics, Application Integration, Database and so on
-We can choose which service we want to use based on our business goals and technology requirements
-Offers 4 support plans- 1)Basic support- support for health checks
2)Developer support- suppot for early development of AWS
3)Business support- support for customers who run production workloads
4) Enterprise support- support customers who run business and mission-critical workloads

REFLECTION

Conclusively, Amazon Web Services have made cloud computing much more innovative, safe and available for everyone. Multiple organizations and individuals have used AWS Cloud Computing for data backups, disaster recovery, software development and many more. With cloud computing, our geographic regions can be expanded making it easier for us to deploy globally. Amazon has sustained their lead for many years compared to its competitors in this area. This is mainly because AWS invests heavily towards its data centers and solutions to make it industry-ready for us users.