

INDUSTRIAL TALK

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SUMMARY

ON 15th November, Dr Qusay Al Maatouk from Asia Pacific University gave a talk on cloud computing and one of its service provider which is Amazon Web Services, the talk lasted for about 1 hour and 30 minutes. Dr Qusay gave explanation on cloud computing about its benefits, overview of cloud computing, advantages and more. Dr Qusay being an expert in AWS gave a deeper insight on the usage of AWS and its capabilities as a powerful cloud computing tool for business and companies looking for a cheap and efficient way to manage data. After the talk, a Q&A session was held and many students took the opportunity to ask the presenter about AWS and cloud computing as a whole. The answers given by Dr Qusay are concise and easy to understand and able to give students a better understanding of cloud computing. After that, the lecture was dismissed at around 5pm.

Reflection

During this talk, students are able to gain adequate knowledge regarding cloud computing, how it is utilized, the type of cloud computing available, and most importantly information regarding AMAZON WEB SERVICE PROVIDER (AWS). The topics discussed are very important for students to learn as AWS, as shown by the presenter, are crucially important in today's technological world and having it as a skill is clearly a huge advantage in getting into the industry.

Cloud computing is on demand now due to the demand for delivery of compute power, database, storage, application and other IT resources via internet with pay as you go pricing.

INFRASTRUCTURE AS A SOFTWARE

-enable you to stop thinking of infrastructure as hardware and use it as software

INFRASTRUCTURE AS HARDWARE solution is to have long hardware procurement cycle and do provision capacity by guessing theoretical maximum peak

Cloud computing model: HYBRID, CLOUD, ON PREMISES

ADVANTAGES:

trade capital expense for variable expense

data center investment based on forecast

pay only for amount consumed

-scaling on demand help to stop guessing capacity

go global in minutes

AMAZON WEB SERVICES (AWS)

AWS is a secure cloud platform that offers broad cloud-based products

AWS provides on-demand access to

compute, storage, network, database and other IT resources.

AWS offers flexibility and only need to pay for individual services

AWS work together like building blocks

WAYS TO INTERACT WITH AWS:

AWS management console (easy to use graphical interface)

Software development kit (access directly from code like JAVA)

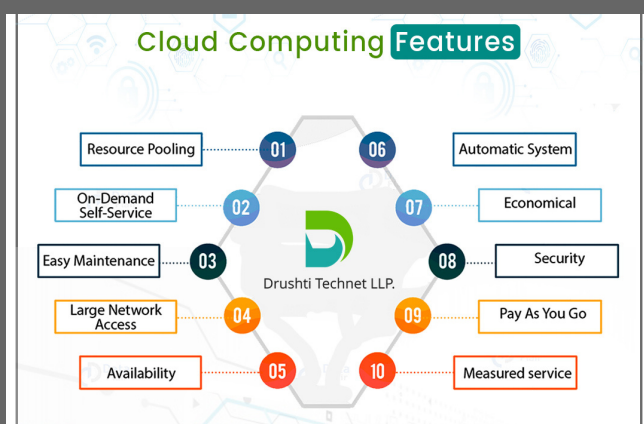
AWS offers 4 plans

basic support: resource center access, product FAQ

developer support: for early development

Business support: customer run production workload

Enterprise support: customer run business and mission-critical workload



Compute services –	Storage services –	Database services –	Management and Governance services –
<ul style="list-style-type: none">• Amazon EC2• AWS Lambda• AWS Elastic Beanstalk• Amazon EC2 Auto Scaling• Amazon ECS• Amazon EKS• Amazon ECR• AWS Fargate	<ul style="list-style-type: none">• Amazon S3• Amazon S3 Glacier• Amazon EFS• Amazon EBS	<ul style="list-style-type: none">• Amazon RDS• Amazon DynamoDB• Amazon Redshift• Amazon Aurora	<ul style="list-style-type: none">• AWS Trusted Advisor• AWS CloudWatch• AWS CloudTrail• AWS Well-Architected Tool• AWS Auto Scaling• AWS Command Line Interface• AWS Config• AWS Management Console• AWS Organizations
Security, Identity, and Compliance services –	Networking and Content Delivery services –	AWS Cost Management services –	
<ul style="list-style-type: none">• AWS IAM• Amazon Cognito• AWS Shield• AWS Artifact• AWS X-Ray	<ul style="list-style-type: none">• Amazon VPC• Amazon Route 53• Amazon CloudFront• Amazon ElastiCache	<ul style="list-style-type: none">• AWS Cost & Usage Report• AWS Budgets• AWS Pricing Calculator	